

#### 3.3.1

Link for Research Paper/Journal/Website/URL of the Print Journal (2018)

**Greater Noida Institute of Technology (Engg. Institute)** 

Plot No. 7, Knowledge Park II, Greater Noida Uttar Pradesh 201310 India

#### 3.3.1 Number of research papers published per teacher in the Journals notified on UGC website during the last five years

		Department of		Year of		_	tion in UGC enlistment of the Jo bject Identifier (doi) number	ırnal /Digital			
Title of paper	Name of the author/s	the teacher	Name of journal	publication	ISSN number	Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list			
Lead time for cities of Northern India by using multi parameter EEW algorithm	Rakhi Bhardwaj	ECE	International journal of Geophysics	2018	0908-6205	https://www.hindaw i.com/journals/ijge/	https://doi.org/10.1155/2018/90 86205	Yes			
Experimental Investigation and Optimization of Process Parameters for Shear Strength of Compound Cast Bimetallic Joints	Sudhir Kumar	ME	Transactions of the Indian Institute of Metals	2018	0972-2815, 0975-1645	https://www.springe r.com/journal/12666	https://doi.org/10.1007/s12666- 018-1349-1	Yes			
Experimental Investigation and Optimization of Process Parameters for Impact Strength of Compound Cast Bimetallic Joints	Sudhir Kumar	МЕ	International Journal of Metal casting	2018	2163-3193 1939-5981	https://www.springe r.com/journal/40962	DOI 10.1007/s40962-017-0190-3	Yes			
MICROSTRUCTURE EVALUATION, THERMAL AND MECHANICAL CHARACTERIZATION OF HYBRID METAL MATRIX COMPOSITE	Sudhir Kumar	МЕ	Journal of Science and Engineering of Composite Materials	2018	2191-0359	https://www.degruy ter.com/journal/key/ secm/html	https://doi.org/10.1515/secm- 2017-0210	Yes			
Characterization and microhardness evaluation of A356/Mg joint produced by vacuum assisted sand mold compound casting process	Sudhir Kumar	ME	International Journal of Metal Casting	2018	2163-3193 1939-5981	https://www.springe r.com/journal/40962	https://doi.org/10.1007/s40962- 018-0264-x	Yes			
Experimental Investigation and Evaluation of Joint Strength of A356/Mg Bimetallic Fabricated Using Compound Casting Process	Sudhir Kumar	ME	International Journal of Metal casting	2018	2163-3193 1939-5981	https://www.springe r.com/journal/40962	https://doi.org/10.1007/s40962- 018-0288-2	Yes			
New Dynamic Metrics Suite To Measure Complexity Of Component Based Software	Anjali Chaudhary	CSE	International Conference on Emerging Trends in Science, Engineering & Technology with VSRD International Journal of Technical and Non- technical Research Volume IX	2018	0976-7967	https://www.vsrdjou mals.com/jms/home .php?ii=12	https://www.vsrdjournals.com/jm s/home.php?ii=12	Yes			
An efficient algorithm for CBIR using clustering techniques for large dataset	Monika Jain	CSE	IEEE Explore via conference published in IEEE Xplore	2018	NA	https://www.aconf.o rg/conf_147077/abst ract.html	https://www.aconf.org/conf_147 077/abstract.html	Yes			
Analysis and Impact of Social Media and it's Privacy on Big Data	Shilpi Bansal	CSE	IEEE Explore via International Conference on Advances in Computing and Communication Engineering (ICACCE), Paris, 2018	2018	NA	https://www.aconf.o rg/conf_147077/abst ract.html	https://www.aconf.org/conf_147 077/abstract.html	Yes			
Blockchain -the Technology of Crypto Currencies	Shilpi Bansal	CSE	IEEE Explore via International Conference on Advances in Computing and Communication Engineering (ICACCE), Paris, 2018	2018	NA	https://www.aconf.o rg/conf_147077/abst ract.html	https://www.aconf.org/conf_147 077/abstract.html	Yes			
Study and comparison of performance of Shell and Tube Heat Exchanger with Two Numerical Methods	Navin Kumar	ME	International journal for research in applied science and engineering technology (IJRASET)	2018	2321-9653	https://www.ijraset. com/	https://www.ijraset.com/	Yes			
A MIG welding testing on tensile and hardness using Taguchi method	Navin Kumar	ME	International journal of Advanced Research in Electronics and Communication Engineering (IJARECE)	2018	2278-909X	https://journals.inde xcopernicus.com/jour nal/34390	https://journals.indexcopernicus.c om/journal/34390	Yes			
Performance enhancement for scale-up of Gas hydrate forming reactors using stirred tank reactors	Navin Kumar	ME	International journal of Advanced Research in Electronics and Communication Engineering (IJARECE)	2018	2278-909X	https://journals.inde xcopernicus.com/jour nal/34390	https://journals.indexcopernicus.c om/journal/34390	Yes			
A review on phytoconstituents and medicinal properties of Emblica officinalis	Dipti Bharti	AS	Annals of Horticulture Journal	2018	0976-4623	https://www.indianj ournals.com/ijor.asp x	10.5958/0976- 4623.2018.00002.6	Yes			
Air Quality Index Analysis and Solutions for High Traffic, Industrial and Residential Regions in Delhi/NCR	Tabish Quadri	CE	Journal of Advances and Scholarly Researches in Allied Education (JASRAE)	2019	2230-7540	http://ignited.in/J/JA SRAE	http://ignited.in/J/JASRAE	Yes			

SFDR Enhancement of 1200 Phase Angle Based RoF Link by using Linear Polarizers	Shelly Garg	ECE	IEEE PhotonicsTechnologyLett ers,	2019	1041-1135	https://ieeexplore.ie ee.org/xpl/RecentIss ue.jsp?punumber=68	10.1109/lpt.2019.2904726	Yes
Mitigating the effects of non linear distortion using polarizers in microwave photonic link	Shelly Garg	ECE	Journal of Optical Communication	2019	2191-6322	https://www.degruy ter.com/journal/key/ joc/html	https://doi.org/10.1515/joc-2019- 0244	Yes
SNDR Optimization of Linearized Mach Zehender Modulator For Multi-Tone RoF System	Shelly Garg	ECE	Journal of Optics, SpringerScience,	2019	0974-6900 0972-8821	https://www.springe r.com/journal/12596	https://doi.org/10.1007/s12596- 019-00524-2	Yes
Intercultural Competence In Lahiri's 'Hell Heaven'	Shivani Kaul	ASHU	THINK INDIA JOURNAL	2022	0971-1260	Think India Journal (thinkindiaquarterly. org)	Think India Journal (thinkindiaquarterly.org)	Yes
Ball Pen Ink level Indicator	YATIN KUMAR AGARWAL	CSE	IJRTE	2019	2277-3878	https://thinkindiaqua rterly.org/	Think India Journal (thinkindiaquarterly.org)	Yes
Multiple Object Detection and Tracking	YATIN KUMAR AGARWAL	CSE	IJRECE	2019	2393-9028	http://www.i2or- ijrece.com/	http://www.i2or-ijrece.com/	Yes
A Review: Cryptography and Steganography for data hiding in images	YATIN KUMAR AGARWAL	CSE	JETIR	2019	2349-5162	http://www.i2or- ijrece.com/	http://www.i2or-ijrece.com/	Yes
Online retreival and indexing of images using multi feature vectors	YATIN KUMAR AGARWAL	CSE	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	2349-5162	https://www.ijitee.or g/	https://www.ijitee.org/	Yes
Systemetic analysis of semantic web search based on ontology modeling and its search engines	ARUN MITTAL	CSE	JETIR	2019	2349-5162	http://www.i2or- ijrece.com/	http://www.i2or-ijrece.com/	Yes
Self-optimization in LTE: An Approach to Reduce Call Drops in Mobile Network	Divya Mishra	CSE	FTNCT 2018, Springer (CCIS Series)	2019	1865-0929 1865-0937	https://link.springer. com/book/10.1007/ 978-981-13-3804-5	https://link.springer.com/book/10 .1007/978-981-13-3804-6	Yes
Performance Enhanced and Improvised Approach to Reduce Call Drops Using LTE- SON	Divya Mishra	CSE	RAACE 2017, Springer (Singapore)	2019	978-981-32- 9584-1	https://link.springer. com/book/10.1007/ 978-981-32-9585-8	https://doi.org/10.1007/978-981- 32-9585-8 15	Yes
Fine tuning of MapReduce jobs using parallel K Map clustering	Divya Mishra	CSE	Journal of Emerging Technologies and Innovative Research (UGC)	2019	2349-5162	https://www.jetir.or	https://www.jetir.org/	Yes
Automated Car Parking with Empty Slot Detection Using IoT	Shilpi Bansal	CSE	International Conference on Advances in Engineering Science Management & Technology (ICAESMT) - 2019,Uttaranchal University, Dehradun, India.	2019	NA	https://papers.ssm.c om/sol3/papers.cfm ?abstract_id=340392 1	https://papers.ssm.com/sol3/pap ers.cfm?abstract_id=3403921	Yes
A Review on Software Effort Estimation Techniques	Dhwani Agrawal	CSE	International Research Journal of Management Science and Technology	2019	2395-0072	https://www.irjet.ne t/	https://www.irjet.net/archives/V6 /i4/IRJET-V6I41063.pdf	Yes
An Evolution on Software Effort Estimation Techniques	Abhishek Singh	CSE	International Research Journal of Management Science and Technology	2019	2250-1959 2348-9367	http://www.irjmst.co m/	http://www.irjmst.com/	Yes
A Review on Software Effort Estimation Techniques	Reena Chaudhary	CSE	International Research Journal of Management Science and Technology	2019	2250-1959 2348-9367	http://www.irjmst.co m/	http://www.irjmst.com/	Yes
A Review on Software Effort Estimation Techniques	Rashmi Chaudhary	CSE	International Research Journal of Management Science and Technology	2019	2250-1959 2348-9367	http://www.irjmst.co m/	http://www.irjmst.com/	Yes
Prediction Analysis Techniques of Data Mining: A Review	Rajiva Ranjan Divivedi	CSE	International Conference on Advance Computing and Software Engineering ICACSE-2019 Organized by Kamla Nehru Institute of Technology Sultanpur.	2019	NA	NA	NA	Yes
Classification Technique for Heart Disease Prediction in Data Mining	Rajiva Ranjan Divivedi	CSE	International Journal of Recent Technology and Engineering (IJRTE)	2019	2277-3878	https://www.ijrte.or g/	https://www.ijrte.org/	Yes
SARLA - A 3-TIER ARCHITECTURAL FRAMEWORK BASED ON THE ACO FOR THE PROBABLISTIC ANALYSIS OF THE REGRESSION TEST CASE SELECTION AND THEIR PRIORITIZATION	Neha Kashyap	CSE	International Conference on Advancements in Computing & Management (ICACM- 2019) SSRN	2019	NA	NA	NA	Yes
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Navin Kumar	ME	IOP Journal of Physics: Conference series	2019	1742-6596	https://iopscience.io p.org/journal/1742- 6596	DOI 10.1088/1742- 6596/1240/1/012123	Yes
Navin Kumar	ME	IOP Journal of Physics: Conference series	2019	0094-243X (PRINT) 1551- 7616 (WEB)	https://pubs.aip.org/ aip/acp	https://doi.org/10.1063/1.512236 3	Yes
Navin Kumar	ME	ICABS 2019 ,International conference held at GDC memorial college, Behal, Bhiwani, HR	2019	NA	NA	NA	Yes
Navin Kumar	ME	AIP Conference Proceedings	2019	0094-243X (PRINT) 1551- 7616 (WEB)	https://pubs.aip.org/ aip/acp	https://doi.org/10.1063/1.512242 6	Yes
Dipti Bharti	ASH	Journal of Pharmacognosy and Phytochemistry	2019	2278-4136	https://www.phytojo urnal.com/	https://www.phytojournal.com/	Yes
Dipti Bharti	ASH	Desalination and Water Treatment	2019	1944-3986	https://www.deswat er.com/home.php	doi: 10.5004/dwt.2019.24595	Yes
Anuranjan Misra	CSE	International Journal of Recent Technology and Engineering (IJRTE)	2019	2277-3878	https://www.jetir.or g/	https://www.jetir.org/	Yes
Shelly Garg	ECE	Wireless Personal Communications	2020	0929-6212	https://www.springe r.com/journal/11277	https://doi.org/10.1007/s11277- 020-07351-w	Yes
Vivek Gupta	ECE	Wireless Personal Communications	2020	0929-6212	https://www.springe r.com/journal/11277	https://doi.org/10.1007/s11277- 020-07290-6	Yes
Vivek Gupta	ECE	International Journal of Advanced Science and Technology	2020	2005-4238	http://sersc.org/jour nals/index.php/IJAST /index	http://sersc.org/journals/index.ph p/IJAST/index	Yes
Vivek Gupta	ECE	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2020	2278-3075	https://www.ijitee.or g/	https://www.ijitee.org/	Yes
Shelly Garg	ECE	Telecommunications and Radio Engineering	2020	0040-2508 1943-6009	https://www.dl.bege Ilhouse.com/journals /0632a9d54950b268 .html	DOI: 10.1615/TelecomRadEng.v79.i14. 40	Yes
Shelly Garg	ECE	Telecommunications and Radio Engineering	2020	0040-2508 1943-6009	https://www.dl.bege Ilhouse.com/journals /0632a9d54950b268 .html	DOI: 10.1615/TelecomRadEng.v79.i2.2 0	Yes
Shelly Garg	ECE	Journal of Critical Reviews	2020	ISSN- 2394- 5125	https://www.jcrevie w.com/index.php	doi: 10.31838/jcr.07.14.514	Yes
Shelly Garg	ECE	Journal of Critical Reviews	2020	ISSN- 2394- 5125	https://www.jcrevie w.com/index.php	doi: 10.31838/jcr.07.13.517	Yes
Shelly Garg	ECE	Journal of Critical Reviews	2020	ISSN- 2394- 5125	https://www.jcrevie w.com/index.php	https://www.jcreview.com/admin /Uploads/Files/61b3143f450950.9 5102316.	Yes
Bhuvnesh Khokhar	EE	Arabian Journal for Science and Engineering	2020	ISSN-2193- 567X	https://www.springe r.com/journal/13369 /	https://doi.org/10.1007/s13369- 020-04761-7	Yes
Bhuvnesh Khokhar	EE	International Journal of Sustainable Energy	2020	1478-6451	https://www.tandfo nline.com/journals/g sol20	10.1080/14786451.2020.1803861	Yes
Bhuvnesh Khokhar	EE	Electric Power Components and Systems	2020	1532-5008	https://www.tandfo nline.com/toc/uemp 20/current	10.1080/15325008.2020.1797936	Yes
Dhwani Agrawal	CSE	International Research Journal of Engineering & Technology	2020	2395-0072 2395-0056	https://www.irjet.ne t/	NA	Yes
Abhishek Singh	CSE	International Research Journal of Engineering & Technology (IRJET)	2020	2395-0072 2395-0056	https://www.irjet.ne t/	NA	Yes
	Navin Kumar  Navin Kumar  Navin Kumar  Dipti Bharti  Dipti Bharti  Anuranjan Misra  Shelly Garg  Vivek Gupta  Vivek Gupta  Shelly Garg  Shelly Garg  Shelly Garg  Shelly Garg  Bhuvnesh Khokhar  Bhuvnesh Khokhar  Dhwani Agrawal	Navin Kumar ME  Navin Kumar ME  Navin Kumar ME  Dipti Bharti ASH  Dipti Bharti ASH  Anuranjan Misra CSE  Shelly Garg ECE  Vivek Gupta ECE  Vivek Gupta ECE  Shelly Garg ECE  Bhuvnesh Khokhar EE  Bhuvnesh Khokhar EE	Navin Kumar  ME  Conference series  Navin Kumar  ME  IOP Journal of Physics: Conference series  ICABS 2019 International conference held at GDC memorial college, Behal, Bhiwani, HR  AIP Conference Proceedings  Pharmacognosy and Phytochemistry  Dipti Bharti  ASH  Desalination and Water Treatment  ASH  Desalination and Water Treatment  CSE  Recent Technology and Engineering (JRTE)  Shelly Garg  ECE  Wireless Personal Communications  Vivek Gupta  ECE  Advanced Science and Technology International Journal of Innovative Technology and Exploring Engineering (JITEE)  Shelly Garg  ECE  Telecommunications and Radio Engineering  Shelly Garg  ECE  Journal of Critical Reviews  Shelly Garg  ECE  Journal of Critical Reviews  Shelly Garg  ECE  Journal of Critical Reviews  Bhuvnesh Khokhar  EE  Arabian Journal of Science and Engineering  International Journal of Critical Reviews  EE  Bhuvnesh Khokhar  EE  Electric Power Components and Systems  International Research  Journal of Engineering & Technology  International Research  International Research	Navin Kumar  ME  IOP Journal of Physics: Conference series  2019  Navin Kumar  ME  ICABS 2019 , International conference held at CDC memoral college, Behal, Bhivani, HR  Navin Kumar  ME  AIP Conference Proceedings  Journal of Phymanacognosy and Phytochemistry  Dipti Bharti  ASH  Dipti Bharti  ASH  Desalination and Water Treatment  CSE  Recent Technology and Engineering (IMTE)  Shelly Garg  ECE  Wireless Personal Communications  COMMUNICATION  CEE  International Journal of Advanced Science and Technology and Explored Engineering (IMTE)  International Journal of Advanced Science and Technology International Journal of International Journal of Advanced Science and Technology  Vivek Gupta  ECE  International Journal of International Journal of International Journal of Advanced Science and Technology  International Journal of International International Journal of International	Navin Kumar         ME         Conference series         2019         1742-6996           Navin Kumar         ME         IOP Journal of Physics: Conference series         2019         (0984-243X (1981) (1981) (1981) (1981) (1981)           Navin Kumar         ME         (CABS 2019 International conference held at OCC memorial college, Behal, Bhwani, HR         2019         Q098-243X (1981)	Navin Kumar	Note   Comment   ME

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A Survey on Various Machine Learning Algorithms	Dhwani Agrawal	CSE	International Research Journal of Engineering & Technology	2020	2395-0072 2395-0056	https://www.irjet.ne t/	NA	Yes
A Survey on Various Machine Learning Algorithms	Abhishek Singh	CSE	International Research Journal of Engineering & Technology	2020	2395-0072 2395-0056	https://www.irjet.ne t/	NA	Yes
Removal of crystal voilet from aqueous solution using iron based metal organic framwork	Dipti bharti	ASH	Desalination and water Treatment	2020	1944-3994	https://www.deswat er.com/	10.5004/dwt.2020.26387	Yes
A Study on Coal Ash Slurry Flow at Higher Solid Concentrations in Pipeline	Navin Kumar	МЕ	Proceedings of International Conference in Mechanical and Energy Technology pp 817-822	2020	ISBN 978-981- 15-2647-3	https://link.springer. com/book/10.1007/ 978-981-15-2647-3	https://link.springer.com/chapter/ 10.1007/978-981-15-2647-3_77	Yes
Optimization of process parameters of A-359 aluminium alloy in EPS-assisted- investment casting process using Taguchi method	Girendra Bhati	ME	IOP Conference Series: Materials Science and Engineering	2020	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/804/1/012020	Yes
Antimicrobial Potential of Some Selected Medicinal Plants Collected from Himachal Pradesh	Dipti Bharti	AS	Research Journal of Chemistry and Environment	2020	0972-0626	https://ores.su/en/jo urnals/research- journal-of-chemistry- and-environment/	NA	Yes
Post Quantum Cryptography: A Literature Review	Shipra Srivastava	IT	Shodh Sarita	2020	0974-5823	https://kalaharijourn als.com/ijme.php	<u>NA</u>	Yes
A study and Comarative analysis of some advanced symmetric Block Cipher Techniques	Shipra Srivastava	IT	International Journal of Creative Research Thoughts	2020	2320-2882	www.ijert.org	NA	Yes
"Medical Image Security Analysis and Enhancement for Telemedicine Applications"	V.K.PALLAW	МСА	European Journal of Molecular & Clinical Medicine	2020	2515-8260	https://ejmcm.com	NA	Yes
Risk Management in Metro Rail Construction Case Study: Delhi Metro Corridor from Kalkaji to Botanical Garden	Tabish Quadri	CE	INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY (IRJET)	2020	ISSN: 2395- 0056	https://www.irjet.ne t/	NA	Yes
A Prototype for Data Integrity in Cloud Environmen	Anuranjan Misra	CSE	EAI Endorsed Transactions on Cloud Systems	2020	2410-6895	https://eudl.eu/	doi/10.4108/eai.7-9-2020.166287	Yes
Blockchain Enabled E-Voting System	Anuranjan Misra	CSE	Dogo Rangsang Research Journal	2020	2347-7180	https://www.journal- dogorangsang.in/	NA	Yes
A Comparative Study on the Seismic and Cost Analysis of RCC and Composite Structure in India	Anuj Sharma	CE	International Journal of All Research Education & Scientific Methods	2020	2455-6211	http://www.ijaresm. com/	NA	Yes
Rigid Triaxial Rotor Model Description of yy-Band in Some Even Nuclei	Moti Singh	ASHU	Physics of Particles and Nuclei Letters, Springer	2021	1547-4771	https://www.springe r.com/journal/11497	https://doi.org/10.1134/S154747 712202011X	Yes
Using Waste Polymer for Soil Stabilization	Taranpreet Kaur	CE	International Journal of Innovative Science and Research Technology	2021	2456-2165	https://www.ijisrt.co m/	NA	Yes
Soil Stabilization Using Plastic Chips, Granules & Sugarcane Bagasse Ash Mixture	Arvind Kumar	CE	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2021	2321-9653	https://www.ijraset. com/	NA	Yes
Comparison of Concrete made through TSMA using Metakaolin and GGBS vs Normal Concrete made through NMA	Anuj Sharma	CE	International Research Journal of Engineering and Technology (IRJET)	2021	2395-0072	https://www.irjet.ne t/	NA	Yes
Dynamic Analysis of G+15 Multi-storied RCC Commercial Buildings with Different Plan Configuration in Seismic Zone V using ETABS 2018	Anuj Sharma	CE	International Research Journal of Engineering and Technology (IRJET)	2021	2395-0072	https://www.irjet.ne t/	NA	Yes
Evaluation on Risk Assessment on Indoor Air Pollution: A Case Study of Delhi-NCR Region	Tarun Kumar	CE	IOP Conf. Series: Earth and Environmental Science 796 (2021) 012055	2021	NA	https://iopscience.io p.org/journal/1755- 1315	doi:10.1088/1755- 1315/796/1/012055	Yes
Influence of Incorporating Industrial Byproducts/Wastes on Mechanical Properties and Durability Characteristics of Self- Consolidating Concrete: A Review	Rajesh Kumar Sharma, Saurav Yadav	CE	Recent Trends in Industrial and Production Engineering, Springer	2021	ISBN: 978-981- 16-3330-0	https://link.springer. com/book/10.1007/ 978-981-16-3330-0	https://link.springer.com/chapter/ 10.1007%2F978-981-16-3330- 0_16	Yes
Load frequency control of a microgrid employing a 2D Sine Logistic map based chaotic sine cosine algorithm	Bhuvnesh Khokhar	EE	ELSEVIER	2021	1568-4946	https://www.science direct.com/journal/a pplied-soft- computing	https://doi.org/10.1016/j.asoc.20 21.107564	Yes

An Application of Analytical Hierarchy Process in Selection of Coating Material Composition in Lost Foam Casting Process	Gagan Varshney	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012010	Yes
An Application of Analytical Hierarchy Process in Selection of Coating Material Composition in Lost Foam Casting Process	Syed Qaisar Husain	МЕ	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012010	Yes
An Application of Analytical Hierarchy Process in Selection of Coating Material Composition in Lost Foam Casting Process	Avinash Ravi Raja	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012010	Yes
An Application of Analytical Hierarchy Process in Selection of Coating Material Composition in Lost Foam Casting Process	Girendra Bhati	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012010	Yes
Application of thermal spraying process in advancement of welding Technology	Syed Qaisar Husain	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012021	Yes
Application of thermal spraying process in advancement of welding Technology	Gagan Varshney	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012021	Yes
Application of thermal spraying process in advancement of welding Technology	Girendra Bhati	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012021	Yes
Application of thermal spraying process in advancement of welding Technology	Avinash Ravi Raja	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012021	Yes
Estimation of temperature during TIG welding of titanium	Avinash Ravi Raja	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012023	Yes
Estimation of temperature during TIG welding of titanium	Anuj Dixit	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012023	Yes
Estimation of temperature during TIG welding of titanium	Syed Qaisar Husain	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012023	Yes
Estimation of temperature during TIG welding of titanium	Gagan Varshney	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012023	Yes
High-efficiency thermodynamic cycles for Kalina power generation systems: A comprehensive review	Alok Manas Dubey	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012030	Yes
Optimization of FDM 3D printing process parameters using Taguchi technique	M S Rawat	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012022	Yes
Optimization of FDM 3D printing process parameters using Taguchi technique	Kapil Kumar	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012022	Yes
Optimization of FDM 3D printing process parameters using Taguchi technique	Kumar Rishi Singh	ME	IOP Conf. Series: Materials Science and Engineering	2021	1757-899X	https://iopscience.io p.org/journal/1757- 899X	doi:10.1088/1757- 899X/1168/1/012022	Yes
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Designing E-learning Portal: How Academics come efficiently into Practice	Shipra Srivastava	IT	IJCRT	2021	2320-2882	https://ijcrt.org	https://ijcrt.org/viewfull.php?&p_i d=IJCRT2106487	Yes
Lightweight Cloud Storage Auditing With Deduplication Supporting Strong Privacy Protection	Shipra Srivastava	IT	IJCRT	2021	2320-2882	https://www.ijcrt.org	https://www.ijcrt.org/papers/IJCR T2103474.pdf	Yes
Used car price prediction	Ramveer Singh	IT	IJARIIT	2021	2454-132X	https://www.ijariit.c om	https://www.ijariit.com/manuscri pt/used-car-price-prediction/	Yes
Used car price prediction  Next Generation AI based	Shipra Srivastava	IT	IJARIIT	2021	2454-132X	https://www.ijariit.c om https://www.ijraset.	https://www.ijariit.com/manuscri pt/used-car-price-prediction/ https://www.ijraset.com/fileserve	Yes
Virtual	Shipra Srivastava	IT	IJRASET	2021	2321-9653	com https://www.irjet.ne	.php?FID=33663 https://www.irjet.net/archives/V8	Yes
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A Novel Approach Based on EMD to improve the Performance of SSVEP Based BCI System	MUKESH KUMAR OJHA	ECE	Wireless Personal Communication	2021	2455–2467	https://www.springe r.com/journal/11277	https://doi.org/10.1007/s11277- 021-08135-6	Yes

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An explicit output current-mode quadrature sinusoidal oscillator and a universal filter employing only grounded passive components- A minimal realization		ECE	Advances in Electrical and Electronic Engineering	2021	1804-3119	http://advances.utc. sk/index.php/AEEE	10.15598/aeee.v19i3.4121	Yes
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Importance of Security in Big Data Log Files on Cloud	Anuranjan Misra	CSE	International Journal of Engineering and Advanced Technology (IJEAT)	2021	2249-8958	https://www.ijeat.or g/	NA	Yes
Queing Theory: Effective and Efficient Tool to Reduce the Waiting Time in Hospital	Shikha Srivastava	ASH	International journal of analytical and experimental modal analysis	2021	0886-9367	https://ijaema.com/	DOI:18.0002.IJAEMA.2021.V13I6 .200001.015685903002	Yes
Queing Theory: Effective and Efficient Tool to Reduce the Waiting Time in Hospital	Renu Kaushik	ASH	International journal of analytical and experimental modal analysis	2021	0886-9367	https://ijaema.com/	DOI:18.0002.IJAEMA.2021.V13I6 .200001.015685903002	Yes
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IMPACT OF COVID – 19 ON INDIAN EDUCATION SYSTEM: A STUDY WITH SPECIAL REFERENCE TO GREATER NOIDA SCHOOLS AND COLLEGES	Shikha Srivastava	ASH	International journal of analytical and experimental modal analysis	2021	0886-9367	https://ijaema.com/	DOI:18.0002.IJAEMA.2022.V14I0 5.200001.015685971377	Yes
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Tribological characterization of pultruded hybrid glass-jute fibre reinforced plastic composites from room tempearture to 75. C	Navin Kumar	ME	World JournalofEngineering	2021	1708-5284	https://www.emeral d.com	https://www.emerald.com/insight /content/doi/10.1108/WJE-03- 2021- 0147/full/html?utm_source=rss&u tm_medium=feed&utm_campaig n=rss_journalLatest	Yes
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PM2.5 AND PM10: EXISTANCE, TREATMENT AND PROBLEMS	Anuj Sharma	CE	Journal of Emerging Technologies and Innovative Research (JETIR)	2021	2349-5162	https://www.jetir.or g/v	NA	Yes
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Load Frequency Control of a Multi-Microgrid System Incorporating Electric Vehicles	Bhuvnesh Khokhar	EE	Electric Power Components & Systems, Taylor & Francis	2022	1532-5008	https://www.tandfo nline.com/journals/u emp20	https://doi.org/10.1080/1532500 8.2022.2049648	Yes
Detection of SSVEP Frequency component using Filter Bank Approach for EEG Based BCI System	Mukesh Kumar Ojha	ECE	Neuroquantology	2022	1303-5150	https://www.neuroq uantology.com	https://10.14704/nq.2022.20.6.N QQ22359	Yes
Detection of SSVEP Frequency component using Filter Bank Approach for EEG Based BCI System	Dhiraj Gupta	ECE	Neuroquantology	2022	1303-5150	https://www.neuroq uantology.com	https://10.14704/nq.2022.20.6.N QQ22359	Yes
Detection of SSVEP Frequency component using Filter Bank Approach for EEG Based BCI System	Priyesh Tiwari	ECE	Neuroquantology	2022	1303-5150	https://www.neuroq uantology.com	https://10.14704/nq.2022.20.6.N QQ22359	Yes
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Cuckoo Search Constrained Gamma Masking for MRI Image Detail Enhancement	Dhiraj Gupta	ECE	Traitement du Signal, IIETA	2022	0765-0019, 1958-5608	https://www.iieta.or g/	https://doi.org/10.18280/ts.3904 33	Yes
Cuckoo Search Constrained Gamma Masking for MRI Image Detail Enhancement	Priyesh Tiwari	ECE	Traitement du Signal, IIETA	2022	0765-0019, 1958-5608	https://www.iieta.or g/	https://doi.org/10.18280/ts.3904 33	Yes
Relative Result and Design Analysis of SPV Tracking System on Simulink Platform	Priyesh Tiwari	ECE	ADBU Journal of Engineering Technology (AJET)	2022	2348-7305	https://journals.dbun iversity.ac.in/ojs/ind ex.php/AJET/index	https://journals.dbuniversity.ac.in /ojs/index.php/AJET/article/view/ 3611	Yes
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First Order Mixed Mode MOS- C All-Pass Frequency Selective Analog Network with Electronic Tuning	Shiv Narain Gupta	ECE	Walailak Journal of Science and Technology	2022	2774-0226	https://tis.wu.ac.th/i ndex.php/tis/index	https://doi.org/10.48048/tis.2022 .4616	Yes
CMOS Transistors based First- Order Voltage-Mode All-pass Filter with Tunable Transformation Possibility	Shiv Narain Gupta	ECE	Journal of Circuits, Systems, and Computers	2022	1793-6454	https://www.worldsc ientific.com/worldsci net/jcsc	https://doi.org/10.1142/S021812 6622502942	Yes
Treatment of thyroid disease through machine learning predictive model	Ajay Kumar Sahu	IT	International Journal of Health Sciences	2022	2550-6978 2550-696X	https://scienceschola r.us/journal/index.ph p/ijhs/index	https://doi.org/10.53730/ijhs.v6n \$8.12813	Yes
Treatment of thyroid disease through machine learning predictive model	Shivani Dubey	IT	International Journal of Health Sciences	2022	2550-6978 2550-696X	https://scienceschola r.us/journal/index.ph p/ijhs/index	https://doi.org/10.53730/ijhs.v6n \$8.12813	Yes
Analysis of Stock Market Prediction by using PSO Algorithm Optimizing LS-SVM	Shivani Dubey	IT	International Journal of Computer Sciences and Engineering	2022	2347-2693	https://www.ijcseonl ine.org/	https://doi.org/10.26438/ijcse/v1 0i2.2630	Yes
Analysis of Stock Market Prediction by using PSO Algorithm Optimizing LS-SVM	Amit kumar agrawal	CSE-AIML	International Journal of Computer Sciences and Engineering	2022	2347-2693	https://www.ijcseonl ine.org/	https://doi.org/10.26438/ijcse/v1 0i2.2630	Yes
Implementation of IoT based Automatic Street light illumination by using IR sensor	Shivani Dubey	IT	GIS Science Journal	2022	1869-9391	https://gisscience.ne t/	NA	Yes
Case Study: An Efficient Survey on Security Analysis of Social Networking	Shipra Srivastava	IT	TCS transactions	2022	1938-6737 1938-5862	https://iopscience.io p.org/journal/1938- 5862	DOI:10.1149/10701.15533ecst	Yes
Production of Ethanol From Jaggery	Syed Qaisar Husain	ME	International Journal for Research in Applied Science & Engineering Technology IJRASET	2022	2321-9653	https://www.ijraset. com/	NA	Yes

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A survey on Crane wire rope Failure	Syed Qaisar Husain	ME	International journal of recent Technology Science and Management	2022	2455-9679	http://sjifactor.com/ passport.php?id=190 39	NA	Yes
A survey on Crane wire rope Failure	Avinash Ravi Raja	ME	International journal of recent Technology Science and Management	2022	2455-9679	http://sjifactor.com/ passport.php?id=190 39	NA	Yes
Design and Analysis on Crane wire ropes by Using FEA methods	Syed Qaisar Husain	ME	International journal of recent Technology Science and Management	2022	2455-9679	http://sjifactor.com/ passport.php?id=190 39	NA	Yes
Design and Analysis on Crane wire ropes by Using FEA methods	Avinash Ravi Raja	ME	International journal of recent Technology Science and	2022	2455-9679	http://sjifactor.com/ passport.php?id=190 39	NA	Yes
MIMO Antennas: Design Approaches, Techniques and Applications	Preeti Sharma	ASHU	Management  MDPI, SENSOR	2022	1424-8220	https://www.mdpi.c om/journal/sensors	doi.org/10.3390/s22207813	Yes
Dual-band trident shaped MIMO antenna with novel ground plane for 5G applications	Preeti Sharma	ASHU	AEU - International Journal of Electronics and Communications	2022	1434-8411 1618-0399	https://www.science direct.com/journal/a eu-international- journal-of-electronics- and-communications	doi.org/10.1016/j.aeue.2022.154 364	Yes
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Emotions specified Automatic Report Generator for Psychiatrist	Pooja Sharma	CSE-AIML	International Journal of Scientific Development and Research	2022	2455-2631	www.ijsdr.org	www.ijsdr.org	Yes
Implementation of IoT based Automatic Street light illumination by using IR sensor	Shivani Dubey	CSE-AIML	GIS Science Journal	2022	1869-9391	https://gisscience.ne t/	https://gisscience.net/	Yes
Automated Irrigation System for monitoring the Soil Moisture Content via Automatic Watering by using Microcontroller Node MCA ESP8266	Shivani Dubey	CSE-AIML	Journal of Emerging Technologies and Innovative Research	2022	2349-5162	www.jetir.org	www.jetir.org	Yes
Multi-Resolution based Singular Value decomposition approach for Breast Cancer Image Classification	Vijay Shukla	CSE	BioMd Research International Journal, Q2, Indexing in Web of Science, SCIE, Scopus (Publisher: Hindwai)	2022	NA	https://pubmed.ncbi .nlm.nih.gov/	https://www.hindawi.com/journal s/bmri/2022/6392206/	Yes
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A Novel adaptive intelligent MPC scheme for frequency stabilization of a microgrid considering SoC control of EVs	Bhuvnesh Khokhar	EE	Applied Energy	2022	0306-2619	https://www.science direct.com/journal/a pplied-energy	doi.org/10.1016/j.apenergy.2021. 118423	Yes
Smart Chatbot	Sonam Sirohi	ECE	Journal of Emerging Technologies and Innovative Research (JETIR)	2022	2349-5162	https://www.jetir.or	https://www.jetir.org/	Yes
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Energy Meter	Dr. Dhiraj Gupta, Nikhil Gupta	EE	International Journal of Innovation Science and Research Technology	2022	2456-2165	https://www.ijisrt.co m	https://www.ijisrt.com	Yes
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#### Research Article

## Lead Time for Cities of Northern India by Using Multiparameter EEW Algorithm

#### Rakhi Bhardwaj 1 and Mukat Lal Sharma2

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Earthquake early warning (EEW) is considered one of the important real-time earthquake damage mitigation measures. The presence of seismogenic sources generating-high seismicity in Himalayas and the cities of concern lying at appropriate distances makes Northern India a perfect case to be monitored using EEW systems. In the present study, an attempt has been made to estimate the lead times for Northern Indian cities for issuing early warning by using the EEW system deployed by IIT Roorkee in Central Himalayas. The instrumentation deployed at 100 locations between Uttarkashi and Chamoli has been used to estimate the lead time at six cities. The estimated lead time includes the time to reach S-wave after subtraction of the sum of P-wave arrival time at the station, time taken by EEW algorithm, transmission and processing delay. The study reveals that for Dehradun, Hardwar, Roorkee, Muzaffarnagar, Meerut, and Delhi the minimum calculated lead time is 5, 11, 20, 35, and 68 sec while the maximum lead time is 37, 36, 47, 59, and 90 sec, respectively. Such larger estimated lead times to these densely populated cities show that EEW can successfully work as one of the important real-time earthquake disaster reduction measures in Northern India.

#### 1. Introduction

The rapid growth of the world's population over the past few decades has led to a concentration of people, buildings, and infrastructure in urban areas. These vulnerable areas when falling in vicinity of seismically active sources become the center of disasters in terms of economic losses and death tolls. Such a case exists in Northern India where a lot of development has taken place in the vicinity of Himalayas which is one of the world's seismically very active zone. Himalaya has been repeatedly hit by damaging earthquakes including some of the great earthquakes, namely, 1897 Shilong (M 8.7), 1905 Kangra (M 8.6), 1934 Bihar (M 8.4), and 1950 Assam (M 8.7), along with other moderate earthquakes which occurred recently, for example, 1991 Uttarkashi (M 6.8), 1999 Chamoli (M 6.4), 2005 Muzaffarabad (M 7.6), and 2011 Sikkim earthquake (M 6.9) in which huge loss of life and property took place [1-3]. The recent 2015 Nepal earthquake may be considered as a whistle blower for revisiting our preparedness towards heavy losses which the local populace has to face in future due to such natural calamity. The problem becomes manifold when the pace of urbanization rapidly increases into the Himalayan region and its periphery and, in turn, increase in the vulnerability is considered. It is therefore essential to take measures to reduce earthquake losses through scientific research. In addition, to create an earthquake resilience society by providing earthquake resistant built environment, it will be of paramount importance to consider the information about such event if it can be given a priori. Since earthquake prediction seems to be a little distant future, the earthquake early warning (EEW) systems are making swift in-roads in becoming a practical tool to reduce the losses by giving warning before the arrival of a damaging ground motion at a site [4, 5]. One of the prerequisites for disaster mitigation and management is the a priori knowledge of impinging strong ground motion. EEW systems have also played an integral role in engineering applications. The main challenge for the effective use of EEW

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#### TECHNICAL PAPER

## **Experimental Investigation and optimization of Process Parameters for Shear Strength of Compound Cast Bimetallic Joints**

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Abstract Joining of A356 alloy and magnesium was carried out by vacuum assisted sand mold compound casting process. Microstructure at the joint interface was studied by using optical microscope, scanning electron microscope, energy dispersive X-ray spectroscopy and X-ray diffractometer. Characterization indicated that a relatively uniform joint interface was obtained. The joint interface was composed of three distinct layers containing Mg2Al3 on aluminum side,  $Mg_{17}Al_{12} + \delta$  eutectic structure on magnesium side and Mg<sub>17</sub>Al<sub>12</sub> as middle layer. As a result of interaction between silicon, present in A356 with magnesium, Mg2Si compound was formed. Push out test was conducted on electronics universal testing machine to measure the shear strength across the joint interface. The important process parameters (grit size of sand paper, insert temperature, pouring temperature and vacuum pressure) were optimized to maximize the shear strength. Optimization was carried out by using response surface methodology, desirability analysis and genetic algorithm (GA) techniques. It was observed that the shear strength increased by 14.21, 8.60 and 4.80% with genetic algorithm, desirability analysis and regression model respectively. GA reported the optimal value of shear strength.

**Keywords** Compound casting  $\cdot$  Micro-structure  $\cdot$  Characterization  $\cdot$  Shear strength  $\cdot$  Optimization  $\cdot$ 

Genetic algorithm · Response surface methodology · Desirability analysis

#### 1 Introduction

Aluminum and magnesium, the lightest engineering metals, are preferred in aerospace, automobile, computers and electronics industry, navigation and military affairs owing to their unique properties. These metals possess low weight to strength ratio, excellent castability and corrosion resistance [1, 2]. Weight of magnesium is nearly one third of aluminum while having similar melting points. Aluminum alloys as an alternative to steel and cast iron exhibit the improved energy efficiency and performance of vehicles. Aluminum is able to maintain strength at elevated temperature and possesses high ductility. On the other hand, the use of magnesium alloys has increased significantly in automobile sector in order to reduce the weight of vehicle and hence CO2 emissions. Magnesium exhibits low ductility and creep resistance [3, 4]. The joint of aluminum and magnesium leads to the advantage of combined properties of both the materials. The combined configuration proves to be quite effective to meet the requirement for lightweight and high performance parts. Therefore, the Al-Mg compound structures seem to be a promising solution for present industrial applications.

Aluminum and magnesium can be joined together by different fusion and diffusion processes such as tungsten inert gas welding, spot welding [5], laser welding [6, 7], vacuum diffusion bonding [8, 9] and friction-stir welding [10–12]. In these processes, hard and brittle intermetallic compounds are produced at the Al/Mg interface, which are undesirable as far as the mechanical properties are concerned. Compound casting process is preferred as it results

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## EXPERIMENTAL INVESTIGATION AND OPTIMIZATION OF PROCESS PARAMETERS FOR IMPACT STRENGTH OF COMPOUND CAST BIMETALLIC JOINTS

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#### **Abstract**

Aluminum alloy A356 and pure magnesium bimetallic castings were produced by vacuum-assisted sand mold compound casting process. The effect of process parameters, i.e., pouring temperature, vacuum pressure, insert temperature and grit size of sandpaper, on impact strength of joint interface was investigated. The experiments were executed by using central composite design approach. Experimental data were utilized to formulate a second-order regression model. Scanning electron microscopy of joint interface revealed that a uniform joint interface consisting of three different layers is obtained due to the diffusion between A356 insert and Mg melt. X-ray diffraction and energy-dispersive X-ray spectroscopy patterns confirmed the formation of intermetallic compounds

Mg<sub>2</sub>Al<sub>3</sub>, Mg<sub>17</sub>Al<sub>12</sub> and Mg<sub>2</sub>Si at A356/Mg interface. The parameters were optimized by using desirability analysis (DA), response surface methodology and genetic algorithm (GA) techniques in order to maximize the impact strength. The maximum value of impact strength is obtained as 10.5, 10.68, 11.71 and 12.29 in experimental, regression, DA and GA, respectively. The best value of impact strength (12.29 MPa) is obtained by GA optimization at 661.13 °C pouring temperature, 200.02 mm of Hg vacuum pressure, 328 °C insert temperature and 1187.15 as grit size of sandpaper.

Keywords: VASMCC process, microstructure, impact strength, optimization, GA, RSM, desirability analysis

#### Introduction

Die casting is an effective casting method for the bulk production of light metal components. The parts with complicated shape and high degree of precision can be fabricated with this method that finds a large number of applications in automotive and aerospace industries. 1,2 However, the requirement of lightweight construction cannot be fulfilled with one material alone. A feasible solution arises with the use of multi-materials. Multi-material joining techniques play a vital role in manufacturing of such lightweight structures. Compound casting process allows the joining of dissimilar (or similar) materials through direct casting in which one material is kept in solid state, while the other is kept in liquid. The solid insert is placed in mold cavity, and the liquid material is allowed to pour around it. Diffusion reaction zone initiated at the

interface of sold insert and melt leads to the formation of joint. As A number of attempts have been made by the researchers to employ this process to join dissimilar or similar metals such as Al/Al, Al/Mg, Steel/Cu, Al/Cu<sup>10,11</sup> and steel/Al. It has been reported that Al/Mg joint renders the desirable mechanical and metallurgical properties. This leads to the significant increase in the applications of these metals in automotive industry. Solid state joining and fusion welding processes have also been employed to join aluminum and magnesium. The problem associated with these processes is the presence of oxide film on the surface of Al/Mg. It results in the formation of weak joints and undesirable highly brittle Al–Mg intermetallic compounds.

Hajjari et al. 17 studied the interface formation of Al/Mg joint prepared by compound casting process. The authors

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# Microstructure evaluation, thermal and mechanical characterization of hybrid metal matrix composite

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Abstract: In this paper, an inert gas assisted electromagnetic stir casting process is adapted for manufacturing a cast hybrid metal matrix composite (MMC) using Al,O, and SiC particulates as a hard phase reinforcement in Al 7075 alloy metal matrix. Four different samples containing 5, 10, 15 and 20 wt% of Al,O, and SiC with Al 7075 alloy composites were fabricated. The characterizations for all the samples were carried out through optical microstructure, scanning electron microscopy (SEM) fractograph, X-ray diffraction (XRD) analysis, differential thermal analysis (DTA) analysis and mechanical properties. The results revealed that the particles are uniformly distributed in the matrix. No peaks of Al<sub>2</sub>C<sub>3</sub> were found. There is negligible loss of material in the composite. The tensile strength and microhardness of the hybrid composite are higher by 65.7% and 13.5%, respectively, when compared to its cast metal matrix Al 7075 alloy.

**Keywords:** Al7075; DTA; electromagnetic stir casting; hybrid composite; XRD.

#### 1 Introduction

Composite materials are engineered materials having a combination of two or more chemically distinct and insoluble phases. The ceramic reinforcement has high strength and high modulus whereas the metal matrix is ductile. The resulting composite material has mechanical properties intermediate to the matrix alloy and the ceramic reinforcement. In metal matrix composites (MMCs), the primary function of the reinforcement is to support most of the applied

load, while that of the matrix is to bind the reinforcement together [1]. Aluminum is widely used as a metal matrix because of its light weight, good mechanical properties and formability, economy and high resistance to environmental degradation. Also aluminum has the capability to incorporate a wide variety of reinforcing agents such as Al2O3, SiC, graphite fibers, whiskers and other particles. Hybrid MMC is obtained by incorporating two or more different kinds of reinforcements in a single matrix. Hybrids have a better all-round combination of mechanical properties than composites containing only a single reinforcement. Composite materials find wide applications in aircraft, space vehicles, offshore structures, piping, electronics, automobiles, boats and sporting goods [2, 3]. Cambronero et al. [4] produced MMC through the powder metallurgy route using 7015 Alalloy powder with 5 wt% Si<sub>3</sub>N<sub>4</sub>, TiB, and B<sub>4</sub>C ceramic powder (8-10 µm size). Ceramic powders are uniformly distributed in AA7015 matrix and no porosity was found. The authors further observed that ceramic addition decreases electrical conductivity, lowers tensile strength, decreases plastic deformation, but has a better wear behavior when compared with heat treated T, AA7015 Al-alloy [4]. Kumar and Balasubramanian [5] fabricated AA7075/SiC<sub>p</sub> composite by the powder metallurgy route and developed a mathematical model to evaluate the wear rate. The authors concluded that particle size has an inversely proportional relationship with wear rate, while the volume fraction of reinforcement and sliding speed are directly proportional with the wear rate. Kalkanli and Yılmaz [6] prepared Al7075 composite with 10 wt%, 15 wt%, 20 wt% and 30 wt% SiC through vertical pressure die/squeeze casting.

Characterizations of samples were carried out through scanning electron microscopy (SEM) analysis, X-ray diffraction (XRD) analysis and mechanical properties. The results revealed that no  ${\rm Al_4C_3}$  was present in the sample and hardness increased with an increased in SiC content [6]. Karthikeyan et al. [7] made a calorimetric study of 7075  ${\rm Al/SiC_p}$  composite fabricated by the stir casting technique having 10%, 15% and 20% volume fractions of  ${\rm SiC_p}$  of 20  ${\rm \mu m}$  average size. The cast billets were hot extruded in a ratio of 20:1. After keeping the cast billets in a soaking temperature of 420°C for 30 min duration, the authors observed that heat capacity of all the composites is less than the

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#### CHARACTERIZATION AND MICROHARDNESS EVALUATION OF A356/Mg JOINT PRODUCED BY VACUUM-ASSISTED SAND MOLD COMPOUND CASTING PROCESS

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#### **Abstract**

Joining of A356 alloy and magnesium was carried out by vacuum-assisted sand mold compound casting process. Experiments were performed as per central composite design method. The second-order regression model validated the accuracy and reliability of experimental results. The interfacial microstructure was assessed by using scanning electron microscope and energy-dispersive X-ray spectroscopy. Phase constitutions were identified by X-ray diffractometer. It was observed that a uniform joint interface of A356/Mg formed with three distinct layers composed of  $Mg_2Al_3$ ,  $Mg_{17}Al_{12}$  and  $Mg_{17}Al_{12} + \delta$  eutectic structure. Mg2Al3 revealed highest microhardness followed by  $Mg_{17}Al_{12}$  and  $Mg_{17}Al_{12} + \delta$  eutectic structure. Brittle and partial ductile fracture morphology was observed on A356 and Mg side, respectively, whereas the middle layer indicated mixed brittle and partial ductile fracture morphology. The process parameters (pouring temperature, vacuum pressure, insert temperature and surface roughness of insert) of compound casting were optimized with respect to the microhardness of joint interface. Optimization was carried out by using response surface methodology (RSM), desirability analysis (DA) and genetic algorithm (GA). A variation of 0.30, 0.84 and 1.35% in microhardness was obtained by RSM, DA and GA, respectively.

Keywords: compound casting process, microhardness, interfacial microstructure, characterization, optimization

#### Introduction

Aerospace and automobile industry increase the demand of parts with minimum weight while achieving similar or even superior parts properties. At the same time, the parts must be produced at lower cost. Sometimes, single material is not able to complete the demand of market; then, compound configuration is required because it provides desired properties. 1-3 The compound casting process covers a wide range of requirements within one component by combining different materials. In this process, one material in liquid state and the other in solid form diffused properly. Consequently, a consistent metallic transition formed between these two materials. 4-6 The process is employed to join semifinished components having the complicated shape merely by pouring a liquid metal around a solid shaped insert.

In transport industry, lightweight fabrication helps to reduce weight and thus saves fuel. Magnesium and aluminum are light metals. These metals are employed to an ever-increasing extent in lightweight fabrication. A number of processes such as diffusion bonding, 8,9 friction stir welding, 10-12 laser welding 13,14 and metal arc welding 15,16 are also feasible to achieve the joining of dissimilar metals like aluminum and magnesium. The joining of Al/Mg by these processes leads to the formation of intermetallic compounds at the interface, which are highly brittle. The preference of using the compound casting process over other dissimilar joining processes renders the formation of a uniform interface zone. At this zone, the liquid metal diffuses into the solid metal by the formation of reaction phases and solid solutions.

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## EXPERIMENTAL INVESTIGATION AND EVALUATION OF JOINT STRENGTH OF A356/Mg BIMETALLIC FABRICATED USING COMPOUND CASTING PROCESS

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#### **Abstract**

In the present work, two lighter materials (pure magnesium and aluminum alloy A356) were joined together by vacuum-assisted sand mold compound casting process. The dominating process parameters such as pouring temperature, insert temperature, surface roughness of insert and vacuum pressure were chosen to execute the casting process. Microstructure of joint interface was analyzed by SEM, EDS and XRD techniques. Mechanical properties, namely, microhardness, impact and shear strength of joint, were measured experimentally. The accuracy of experimental data was checked by using response surface methodology. The joint strength of A356/Mg interface was evaluated by applying graph theoretic approach (GTA). A

numerical value, joint strength index, was proposed to show the effect of factors and subfactors. Index values of subsystems revealed that shear strength has maximum influence on joint strength followed by microhardness and impact strength. GTA proves an effective tool in estimating the optimum process parameters for compound casting process.

Keywords: compound casting process, joint interface, microstructure, mechanical properties, graph theoretic approach

#### Introduction

Magnesium and aluminum are the lightest engineering metals. Magnesium is 35% lighter than aluminum.¹ Owing to the desirable properties such as light weight, good castability, high strength and corrosion resistance, aluminum alloys are extensively used in automobile, aerospace and defense sectors.² Magnesium possesses excellent castability and better noise and vibration dampening properties than aluminum.³

Sometimes, the requirement of a lightweight part is notable to meet with a single material alone. This problem can be sorted out by employing the part fabricated with multi-materials. A joint of magnesium and aluminum offers the benefit of distinctive properties of both the

materials into a single part. These metals can be joined together by a variety of processes such as spot welding, tungsten inert gas welding, gas metal arc welding, friction stir welding, laser welding 10,11 and vacuum diffusion bonding. The formation of brittle intermetallic compounds at Al/Mg interface is accompanied in these processes due to which the interface turns out to be weaker.

The compound casting process provides a better solution to this problem. It is a unique metal casting process preferably employed to join dissimilar materials. It involves pouring of liquid metal over a solid metallic insert. A diffusion process is initiated at the solid-liquid interface which results in the development of a uniform transition zone sandwiched between two materials. The transition zone consists of intermetallic compounds, which possesses the

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## A REVIEW ON PHYTOCONSTITUENTS AND MEDICINAL PROPERTIES OF EMBLICA OFFICINALIS

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#### **ABSTRACT**

Emblica officinalis has great importance in herbal, Ayurvedic, Chinese and traditional medicinal systems in various countries. Emblica officinalis has been believed to increase defense against various diseases. In this article, phytoconstituents separated from Emblica officinalis and application of Emblica officinalis in various diseases like, cancer, diabetes, heart disease, diarrhea, ulcer, pyria, snake bite, analgesic, antioxidant, antitussive, antimicrobial, hypoprotective, and cytoprotective etc., have been reviewed. E. officinalis is also used as ingredient of various preparations used to enhance memory, treat ophthalmic disorders and lowering cholesterol level.

Key words: Emblica officinalis, antioxidant activity, anticancer, antivenom activity.

Medicinal plant have played key role in world health. Herbal drugs have been used since ancient time as medicines for the treatment of rang of diseases. Herbal medicinal preparations are still popular in developing countries inspite of great advanced observed in modern medicines in recent decades. Plants are very efficient sources of renewable organic materials such as unusual and nutritionally rich proteins, lipids and enormous spectrum of chemical constituents. Many of them have known value as drugs, biomaterials, flavorings, fragrances, coloring agents and potent agrochemicals (1).

Medicinal plants are known to be much safer. These are used for the treatment of various bacterial fungal and viral diseases in crops as well as in Ayurvedic and other medicinal systems (2) (3). In the world 5-10% of all plants are systematically investigated for their medicinal property. Two thousand medicinal plants are recognized. *Emblica officinalis* is a deciduous tree of euphorbiaceae family. Plant has been also known as Dhatriphaa, Amla Amaliki, Amalakan, Sriphalam, Vayastha in Sanskrit, Amla in Hindi and German, Emblica myroblan in English, Mirabolano emblica in Italian, Amba in Nepalese, An mole in Chinese, Papak Melaka in

Malaysian, Mirabolano emblica in Portugues and Tibetan (4).

Emblica officinalis contains innumerable constituents in varying amounts falling in broad of alkaloids, benzenoids derivatives, diterpenes and furanolactones, flavonoids and sterols (2). Amla or Indian gooseberry has been playing a significant role from ancient times in traditional medicine, Ayurveda and in tribal medicine. These phytochemicals extracted from other plants has been investigated for different bioscreening showing significant results but have not been researched from Emblica officinalis solvent extraction yet (5).

The chemical constituents of this plant have been used in formulation of many herbal and patent drugs (6). Many of medicinal properties like analgesic, antivenom, antioxidant, anticancer, antipyretic, antitussive, antimicrobial, antibacterial, antifungal, hypoprotective, antiulcerogenic, antitumour, cytoprotective, antidiarrheal etc. reported in this plant. It is usefull in memory enhancing, ophthalmic disorders and lowering cholesterol level. It is often used in the form of Triphla which is an herbal formulation containing fruit of Emblica nswlute of Techno

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