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| Dear Reader, |
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| [Compensation of filler wire deflection in robotic gas metal arc welding processes](https://links.springernature.com/f/a/rgs9myTL0GtmBvtaSn_icA~~/AABE5gA~/RgRo81r_P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgxMC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQxMDE3VwNzcGNCCmcO_9UQZ6epVx9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Denys Molochkov, Ruslan Kulykovskyi |

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| Ivan Vidaković, Katica Šimunović, Goran Heffer, Vedrana Špada |

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| [Experimental investigation of process parameters of cold metal transfer welding-based wire arc additive manufacturing of aluminum 4047 alloy using response surface methodology](https://links.springernature.com/f/a/d9b15WZYw-WQW_mbo5IamA~~/AABE5gA~/RgRo81r_P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgxNy0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQxMDE3VwNzcGNCCmcO_9UQZ6epVx9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Rajendra Prasad, Narayan Yuvaraj, Vipin, Archana Gopal |

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| [Monitoring the gas metal arc additive manufacturing process using unsupervised machine learning](https://links.springernature.com/f/a/zUlXBKiiRU8C-GrZE0idXg~~/AABE5gA~/RgRo81r_P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgzNi16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQxMDE3VwNzcGNCCmcO_9UQZ6epVx9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Giulio Mattera, Joseph Polden, John Norrish |

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| Soheil Kiani, Seyyed Ehsan Mirsalehi, Amirhossein Sahraei |

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| Amin Shakoori, Tohid Saeid, Ali Ebrahimpour |

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| I. Galvão, G. H. S. F. L. Carvalho, J. Pimenta, T. Abreu, C. Leitão, R. M. Leal, R. Mendes |

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| Martin Sennewald, Ramon Wüstefeld, Michael Hasieber, Torsten Löhn, Jean Pierre Bergmann |

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| Satyanarayan, Kazuyuki Hokamoto, Shigeru Tanaka, Akihisa Mori, Daisuke Inao |

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| [Diagnostics of welded joint damaging of polyurethane foam insulated pipelines](https://links.springernature.com/f/a/cFLmgsuADUqYndbEAtvqBQ~~/AABE5gA~/RgRo81r_P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTczOS16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQxMDE3VwNzcGNCCmcO_9UQZ6epVx9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Anatoly Dubov, Alexander Dubov, Sergey Kolokolnikov, Artem Marchenkov |

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| [WeldNet: a lightweight deep learning model for welding defect recognition](https://links.springernature.com/f/a/YN1z0qNQOIMRLmMtCIXnvw~~/AABE5gA~/RgRo81r_P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc1OS05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQxMDE3VwNzcGNCCmcO_9UQZ6epVx9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Rongdi Wang, Hao Wang, Zhenhao He, Jianchao Zhu, Haiqiang Zuo |

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| [Effect of holding time on microstructure evolution and properties of T2Cu/Al1060 diffusion bonding layer](https://links.springernature.com/f/a/57Uy9GmdAISvwUstHMd7Fg~~/AABE5gA~/RgRo81r_P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgzOC14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQxMDE3VwNzcGNCCmcO_9UQZ6epVx9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Yunlong Ding, Wenjie Shao, Zhiguo Zhuang, Bingyang Liu, Bing Han |

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| [Effect of Co on the corrosion resistance and erosion-corrosion behavior of duplex stainless steel surfacing layer](https://links.springernature.com/f/a/8A2iyjQsXMW20JPQZutg5g~~/AABE5gA~/RgRo81r_P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYxOS15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQxMDE3VwNzcGNCCmcO_9UQZ6epVx9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Yefeng Bao, Shangzhi Wei, Yu Liu, Yongfeng Jiang, Ke Yang, Qining Song |

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| [Creep rupture study of dissimilar welded joints of P92 and 304L steels](https://links.springernature.com/f/a/ZxwwRDLxXRoSs2wBvvz1yw~~/AABE5gA~/RgRo81r_P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc1Ny14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQxMDE3VwNzcGNCCmcO_9UQZ6epVx9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Gaurav Dak, Krishna Guguloth, R. S. Vidyarthy, Dariusz Fydrych, Chandan Pandey |

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| [Study on welding parameters and interface of aluminum/steel composite pipe using underwater explosive welding](https://links.springernature.com/f/a/o4p1iRi1Vf-LpMi8yOMZOw~~/AABE5gA~/RgRo81r_P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgyMi01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQxMDE3VwNzcGNCCmcO_9UQZ6epVx9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Moujin Lin, Jiangliang Li, Junqi Zhou, Dingjun Xiao, Jiamou Wu, Bing Xue |

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| [Surface enhancement of metallic alloys by laser precision engineering](https://links.springernature.com/f/a/GrbSZrnDHWSWlX7H6z2Nfw~~/AABE5gA~/RgRo81r_P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTcwNC13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQxMDE3VwNzcGNCCmcO_9UQZ6epVx9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Mingze Xin, Zeming Fan, Libin Lu, Yingchun Guan |

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