

**Welding in the World**. [Volume 68, Issue 4](https://links.springernature.com/f/a/W6FlpW_0hZY6Zbfks0gVZw~~/AABE5gA~/RgRn3-KoP0SKaHR0cDovL2xpbmsuc3ByaW5nZXIuY29tL2pvdXJuYWwvNDAxOTQvNjgvND91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjhfNCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwMzIyVwNzcGNCCmX8qF39ZVOFzNpSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) is now available online.

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| [Editorial: Recent innovations in intelligent welding manufacturing](https://links.springernature.com/f/a/rYOIgc8V-DdlbeJ5J0FpzQ~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTcyOS0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| YuMing Zhang, Stephan Egerland |

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| [Artificial neural network-based surface reconstruction model of wire-arc additively manufactured surfaces using discrete cosine transform](https://links.springernature.com/f/a/R3NZJfHOYikDKlfa2BJZVg~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYyNS0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Seyed Aref Banaee, Abhay Sharma |

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| [Development of a machine learning model for deviation from trajectory detection in multi-pass TIG welding in a narrow gap](https://links.springernature.com/f/a/2qGIXoqV0zBHW7JSqYoc-g~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYyNi16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Theo Boutin, Issam Bendaoud, Josselin Delmas, Damien Borel, Cyril Bordreuil |

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| [An adaptive welding method for grooves with position and size errors](https://links.springernature.com/f/a/u6yxJjqwy-ud---FUYqygA~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYyOS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Wenkai Wang, Yu Shi, Chunkai Li, Yufen Gu, Muzhong Xu, Fengxian Dai |

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| [Controlling torch height and deposition height in robotic wire and arc additive manufacturing on uneven substrate](https://links.springernature.com/f/a/pzLxyJxa9sPTSJXQAhAENg~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYzMy0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Menghan Shi, Jun Xiong |

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| [Deep-learning based supervisory monitoring of robotized DE-GMAW process through learning from human welders](https://links.springernature.com/f/a/kBELf9hT5j4yi7uO8pkPMQ~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYzNS15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Rui Yu, Yue Cao, Jennifer Martin, Otto Chiang, YuMing Zhang |

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| [Monitoring the forming dimensions of components produced by arc-directed energy deposition based on a molten pool’s geometric characteristics](https://links.springernature.com/f/a/fTa4IvZlxMOCTuzd5n826g~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY0MC0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Shengfu Yu, Runzhen Yu, Fangbin Deng, Jia Ren |

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| [Reinforcement learning as data-driven optimization technique for GMAW process](https://links.springernature.com/f/a/UIz-8VcN_Sz8IVo_rGC3VQ~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY0MS0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Giulio Mattera, Alessandra Caggiano, Luigi Nele |

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| [Development of electron optical capabilities for manufacturing of large components by electron beam welding](https://links.springernature.com/f/a/LGdDZpfLwWM6rKu4E21rhg~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY0Ni05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| T. Dutilleul, R. Widdison, W. Kyffin |

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| [Fuzzy control of backside weld width in cold metal transfer welding of X65 pipeline in the vertical-up position](https://links.springernature.com/f/a/qgjwR-722q03yoyJZTiyNQ~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY0OS02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Zhijiang Wang, Zhendong Chen, Shaojie Wu, Caiyan Deng, Zhichen Lin |

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| [Predicting porosity in wire arc additive manufacturing (WAAM) using wavelet scattering networks and sparse principal component analysis](https://links.springernature.com/f/a/AXi0yWXKFcL7jIzPdIikiQ~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTcwOS01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Joselito Yam Alcaraz, Abhay Sharma, Tegoeh Tjahjowidodo |

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| [Impact of annotation quality on model performance of welding defect detection using deep learning](https://links.springernature.com/f/a/oG2hDXnmzLOZyRXzLKfbVQ~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTcxMC15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Jinhan Cui, Baoxin Zhang, Xiaopeng Wang, Juntao Wu, Jiajia Liu, Yan Li, Xiong Zhi, Wenpin Zhang, Xinghua Yu |

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| [Dynamic penetration prediction based on continuous video learning](https://links.springernature.com/f/a/vCO2k5vSWC7rOe42T0PqKg~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc0NS0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Zhuang Zhao, Peng Gao, Jun Lu, Lianfa Bai |

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| [Residual Swin transformer-based weld crack leakage monitoring of pressure pipeline](https://links.springernature.com/f/a/H9Liyo-X12hTmW6YYEx9kw~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYzMi0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Jing Huang, Zhifen Zhang, Rui Qin, Yanlong Yu, Yongjie Li, Guangrui Wen, Wei Cheng, Xuefeng Chen |

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| [Heat input control in horizontal lap joint welding through active wire preheating in GMAW-P](https://links.springernature.com/f/a/72nTphLXJoYXd0QWpNsQJg~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY1NC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Fernando Matos Scotti, Maximilian Pudenz, Sarah Perrin, Erwan Siewert, Jean Pierre Bergmann |

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| [Process parameters and their effect on metal transfer in gas metal arc welding: a driving force perspective](https://links.springernature.com/f/a/eVb3Df4NOIVmPjeqZ9ruGg~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY3MC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yuriko Sato, Yosuke Ogino, Tomokazu Sano |

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| [In situ measurement of hydrogen concentration in steel using laser-induced breakdown spectroscopy (LIBS)](https://links.springernature.com/f/a/pejax42qPlLI6Y3a6UXgdQ~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY3Ny0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| L. Quackatz, A. Griesche, J. Nietzke, T. Kannengiesser |

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| [Probing dimensional consistency during multi-track multi-layer gas metal arc directed energy deposition of aluminium alloys](https://links.springernature.com/f/a/CrXB4cpNEDg73x_OJyrxgg~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTY4NS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| P. K. Chaurasia, B. K. Barik, A. Das, S.-F. Goecke, A. De |

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| [Effect of solution heat treatment on the microstructure and mechanical properties of laser melting deposited GH 5188 superalloy](https://links.springernature.com/f/a/ExY4_XEGYxyb630XMWX53g~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTY5NS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yan Wang, Wei Liu, Shuai Huang, Chao Gao, Neng Li, Huaping Xiong |

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| [The mechanism of element inhomogeneity in TW-DED-arc fabricated γ-TiAl alloy](https://links.springernature.com/f/a/Ssm2ksi_X4V3p3HfkIPuOg~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTY5Ny02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Jianwen Xin, Fang Li, Dongsheng Wu, Chen Shen, Hisaya Komen, Manabu Tanaka, Xueming Hua |

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| [Efficient bead-on-plate weld model for parameter estimation towards effective wire arc additive manufacturing simulation](https://links.springernature.com/f/a/mBfFr7VDWtmdIT2kEyEkdg~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTcwMC0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Dominic Strobl, Jörg F. Unger, Chady Ghnatios, Alexander Klawonn, Andreas Pittner, Michael Rethmeier, Annika Robens-Radermacher |

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| [An RBF neural network–based parameter tuning for an ADRC regulator of electrode wire feed mechanism: arc welding applications](https://links.springernature.com/f/a/1-yh9QM6VgmsEXJ0OT06FA~~/AABE5gA~/RgRn3-KoP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc0Mi00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAzMjJXA3NwY0IKZfyoXf1lU4XM2lISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Badreddine Babes, Amar Boutaghane, Abdelmalek Reddaf, Mounir Boudjerda, Hichem Amar, Noureddine Hamouda, Sherif S. M. Ghoneim |

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