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| **Welding in the World**. [Volume 66, Issue 4](http://links.springernature.com/f/a/PD2XitdVcP6jxPxNN6PMMA~~/AABE5gA~/RgRkHuICP0SKaHR0cDovL2xpbmsuc3ByaW5nZXIuY29tL2pvdXJuYWwvNDAxOTQvNjYvND91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjZfNCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwMzI0VwNzcGNCCmIqAl08Ykrb58JSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~)

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| [In situ detection of welding defects: a review](http://links.springernature.com/f/a/QU0CRvsXAWKYq-On-ITAHw~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTIyOS02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Anirudh Sampath Madhvacharyula, Araveeti V Sai Pavan, Subrahmanyam Gorthi, Srihari Chitral, N Venkaiah, Degala Venkata Kiran |

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| [On the nondestructive testing and monitoring of cracks in resistance spot welds: recent gained experience](http://links.springernature.com/f/a/Dng3heEHKXf6r3oDdtmBCA~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI0OS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Fethi Dahmene, Slah Yaacoubi, Mahjoub El Mountassir, Abd Ennour Bouzenad, Pierre Rabaey, Mohamed Masmoudi, Pascal Nennig, Thomas Dupuy, Yacine Benlatreche, Abdoulaye Taram |

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| [Automated defect detection in digital radiography of aerospace welds using deep learning](http://links.springernature.com/f/a/LdBmDqRmbOPWBeUXD0pzMQ~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI1Ny13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Topias Tyystjärvi, Iikka Virkkunen, Peter Fridolf, Anders Rosell, Zuheir Barsoum |

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| [Automatic forgery detection for x-ray non-destructive testing of welding](http://links.springernature.com/f/a/0pKgUgXVRCtmASJH7PS1gA~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTIxMS0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Fan Zhang, Boyan Zhang, Xinhong Zhang |

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| [Effect of static load during HFMI treatment on fatigue strength and residual stress field of longitudinal atachment welded joints](http://links.springernature.com/f/a/RI3pEhQlkbezthTahmW97Q~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTIwOC14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Takeshi Hanji, Kazuo Tateishi, Suguru Kano, Masaru Shimizu |

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| [Fatigue improvement of aluminium welds by means of deep rolling and diamond burnishing](http://links.springernature.com/f/a/uji0qTzF1NswIArBmJ00Fw~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTIxMi0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Jan Schubnell, Majid Farajian |

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| Takeshi Hanji, Kazuo Tateishi, Suguru Kano, Masaru Shimizu |

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| Winniefred Rudorffer, Michael Wächter, Alfons Esderts, Florian Dittmann, Igor Varfolomeev |

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| [On the interaction of axial and bending loads in the weld root fatigue strength assessment of load-carrying cruciform joints](http://links.springernature.com/f/a/86Bd591X7o3IvF13_8jXxQ~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTIzNy02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Antti Ahola, Rohani Raftar Hamidreza, Timo Björk, Olavi Kukkonen |

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| [Effects of welding defects on the fatigue properties of spot welded automobile steel sheets and the establishment of a fatigue life evaluation method](http://links.springernature.com/f/a/COAfSG10M-OPh07kMROPJg~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTIzOC01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yuki Ogawa, Ichiro Ohara, Jinta Arakawa, Hiroyuki Akebono, Atsushi Sugeta |

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| [Determination of notch factors for transverse non-load carrying stiffeners based on numerical analysis and metamodeling](http://links.springernature.com/f/a/JgcDZjLFXQu5oDiMiguh8Q~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTI0MC14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Josef Neuhäusler, Klemens Rother |

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| [Numerical investigation of crack opening-closing behavior on pre-fatigued welded joints repaired by HFMI](http://links.springernature.com/f/a/KI38VRJq4ilMuDPefgYQWQ~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI2My15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yuki Banno, Koji Kinoshita, Zuheir Barsoum |

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| [Comparison of stiffener effect on fatigue crack in KT-type pipe joint by FEA](http://links.springernature.com/f/a/QpsSRMtwQTGZW0R0VPaQdw~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI1NC16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Shazia Muzaffer, Kyong-Ho Chang, Zhen-Ming Wang, Seong-Uk Kang |

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| [Overview on the digitized production of welded steel structures](http://links.springernature.com/f/a/8vUvm2J0fxSSBhEo9Wn6Mw~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTIyNC14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Tuomas Skriko, Antti Ahola, Timo Björk |

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| [Statistical analysis of MAG-CMT welding parameters and their influence on the Ni-alloy weld overlay quality on 16Mo3 base material](http://links.springernature.com/f/a/m87g5ZmuONrXcEgjKaF-kw~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI1Ni14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Dejan Marić, Tomislav Šolić, Veljko Kondić, Ivan Samardžić |

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| [**» Abstract**](http://links.springernature.com/f/a/m87g5ZmuONrXcEgjKaF-kw~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI1Ni14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)    [**» Full text HTML**](http://links.springernature.com/f/a/m87g5ZmuONrXcEgjKaF-kw~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI1Ni14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) [**» Full text PDF**](http://links.springernature.com/f/a/cuI8tZ1UEirh4jTbWwlbwg~~/AABE5gA~/RgRkHuICP0SfaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjItMDEyNTYteD91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjZfNCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwMzI0VwNzcGNCCmIqAl08Ykrb58JSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |

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| [Optimization of welding conditions for hot-wire GMAW with CO2 shielding on heavy-thick butt joint](http://links.springernature.com/f/a/GKgJ5tywWtmIxj054-co_g~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTIyNy04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| N. Suwannatee, S. Wonthaisong, M. Yamamoto, S. Shinohara, R. Phaoniam |

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| [Correction: Effect of static load during HFMI treatment on fatigue strength and residual stress field of longitudinal atachment welded joints](http://links.springernature.com/f/a/P5UspWikHCvHaUfOrAVnRA~~/AABE5gA~/RgRkHuICP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI2NC14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl80JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjAzMjRXA3NwY0IKYioCXTxiStvnwlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Takeshi Hanji, Kazuo Tateishi, Suguru Kano, Masaru Shimizu |

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