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| **New Issue Alert** | 26 September 2025 |

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| Dear Reader, |
| We are pleased to deliver your requested table of contents alert for **Welding in the World**. [Volume 69, Issue 10](https://links.springernature.com/f/a/mfxB2FeGwWeBCUT0Q2xj7Q~~/AABE5hA~/1TuDJGHVAQIXyEZzFPH6t4w7A5o8bp1pSsi4EcrB6JjTdsCFFFiW44d3zP0nkDylBIn20MtmOu2M2RmwIgEQKK8p03cFRKyn0HQ-Ix9lJcN4aMD6BGG1L-E7fHRozLr_PhrbuTHAJQmwkrodECKkTiXmw6n6qHrJ_3t7MsLi5D32HuVAQVL-B8zarnOywFf2KIM4lHGViJHeyZRcGjZS4EtvGN5diuG6smn-bE61PHU7UyL1ZoDB0bxgwVJFLMaQapLqPmYI3ZOZTYinND8BtSeDW-xi7zZ2PqKITr69uod1DVw3X0hK0q79uwHpN-UguJ-T_KpVY68lul8z_zUPXg~~) is now available online. |
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| Image: Welding in the World cover |

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| [Current waveform effects on AC-CMT arc welding of 7075 Al alloy with addition of ER7075 wire](https://links.springernature.com/f/a/8CJT-uqohTMRpA4YqxsIIw~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkeMBFencTvS1n_nCcGR2f9ARSC2ayUZtHdDn4YVI4S1UGN2-zml7DaGuQB2uRCw6pgzyZledpaF7P75omrFKxrCqsxAcJh-zGPfwdXyEwnSXckKZwgZlrRqjk2pGT3Iva9Gvk-IXWDBGkI5lKLokciBOvY_hgFX-xfAgQ1LwkKXPQVsWaAkvexdRrDybm-2H2m1roKac5tROjsmduU253fqIlXDpuycQEWaegBLjA7rodpUOllidWIiS4frhIbp2h33Kshw77sSL9MF4eC2V89w~~) |
| Wang Kekuan, Liu Jian, Duan Ruibin, Cui Wanting, Niu Huli, Li Liangyu, Yue Jianfeng |

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| [Development of Zn–22Al–xAg filler metals for brazing 6061 aluminum alloy to T2 copper](https://links.springernature.com/f/a/IAQQnQakg_HMhCF-CF7mAg~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkeMBFencTvS1n_nCcGR2f9OcxeE1TiwVlHrdr0IHJCDIZeIeU0bPE46UzNAmZt9Nx2CkshoKFi-LKmoIILTwkFIOKgWxl5V-OA4DXoNfa1BslkQrZNcA6nQzMPjC2-jMUxSxcBv6VhAGkrbizOogu0biRGQtPT2Es22IZ3Y76uzsnRZPOk9OOMNUh7dREpsC5Eot_33xo3YxdIJFr9bFKxhEYNmtsV6aRQOygmqAUAJxalNzIuhy0GGsOIeOdpeoMfegE4R3_z66h161O0Vqu8g~~) |
| Xintao Li, Yunlong Zhai, Mingyang Liu, Xiu Wang, Tianguo Wang |

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| [A comparative study on complete and partial slot filling in automotive chassis welding for fatigue life enhancement](https://links.springernature.com/f/a/ste_7otbmxhdz3trhD0esA~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkgb_IO_wznAf7jnb0Fz9rWFlVmaeHCnFj5gjSDmAcppmp5Q_qVap8HQei2LK0V9ZuPYVTCmDYa281JoLKwBb5i_6ZI7qJkT5cuY3N4c23TZACOeQ0AjNbmEnMI2KDHTlPNmLaB5ODZeS2u0kPpRjLkGfYRuTa_Jy2XOEK92j_9W5tPKE7ik12aIcupZmzgEToqs-YBsYfK8RyCT-v913GT1XNvN_9pDOB6HzBgb6dFixsdfvO2POK3r6IRt_9oOQUhkf7dRK7oYSDOIG8dbhilA~~) |
| Sazzad Hossain Emon, Savyasachi Nellikode, Jeong Hoon Lee, Myeong Hyun Kim, Namkug Ku, Si Young Park, Daewon Kim, Yeong-Do Park |

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| Wenmin Ou, Wenyong Zhao, Guolin Guo, Jun Dai, Lili Fan |

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| [Influence of the cooling time *t*8/5 on weld metals](https://links.springernature.com/f/a/MX5fjcJJPs9ipoknX_OxGw~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkgb_IO_wznAf7jnb0Fz9rWChOPQBRlhmr-uxZ5zhRVdYuiOYw7xtsgGhuLHDKnIso5Un9NomhTLl7TTYAJ2auYODS-WUBAmxA5BiFQxWiEdrm8tg_q50PsHsZK4HFceDJGbbtr8tZOQk4ArxJ5uJBhUrEN7MXfIqYSxTUM0sCl1hRdfpQIuUBWFNoyl32cD-Bvs7enaZWcyjt39gj1NOQ5244K8chjjjQd1JrOLuzGzw-97TSUcD1zD45_RCnD8GE0ffSRrOgknx5B-MCkJRzlQ~~) |
| Brian Rust, Jan Schmidt, Richard Stroetmann |

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| [Solidification crack susceptibility of 5xxx aluminum alloys](https://links.springernature.com/f/a/kbLJ6MDISNlCFJleKEo7Qg~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkgb_IO_wznAf7jnb0Fz9rWDHDJYymBOUcMwTItU9XdJa2sQqyrzxyltH1EPM0we0bnLrAuicaGA4zlyA8QJkj-P760gROCzqWSBCO8haTttWAzcne-U9n2zeR4dyHiGdPOYdK2QVUJY-m5pZqKDuanvEVruS3tp87dC9dRzZ1ICjrSIv0GkgHA4dtLSs9m2cSyOsaZg-UaKMlEb1F07GepbhIiqb6Cqgh0twXRhU31jMo04QTcce1s7i1PBqcCNyppT8jXHZp4nsO2Ni4i95gtg~~) |
| Tayfun Soysal |

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| [Elevated-temperature wear performance of NiCr-B hardfacing alloy deposited on 316L stainless steel via GTAW process](https://links.springernature.com/f/a/kdkB6XeeXbsZnZWnvQKVmA~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkgb_IO_wznAf7jnb0Fz9rWD8FRv_cLhAqptlZXBE_GcOjX4MjRcx2ino74Y-rAXTm7Grrn9_-qd3YjhRJOiDbSUM16MkAwrHYkThwOYoXjYq8aQPPnBIdTzPTTsvAI50HLVo2o1Ej0qqRr1SDHYU_z8maoIvXi25eTPbafUJRcQvKbrvmnnhfuNzz5-IqwvHiyJ89cuDzKLXGCR_oB09h5y1DCMf7nLPs8Xi_2AUMANrwGu1BoQpAC_Fo3lf5O341K8q-koEmp58scE1SoJwy7g~~) |
| Falgun V. Suthar, Hetalkumar Shah, Durbadal Mandal, Sujoy K. Chaudhury |

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| [Effect of welding heat input on microstructure evolution and mechanical properties of welded joints of 1000 MPa steel for hydropower engineering](https://links.springernature.com/f/a/nX2yPD2vDTBjOBRszMCvHg~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkgb_IO_wznAf7jnb0Fz9rWCpbhsSVakrEu87KsFn2xg0WvzVbh9su9Zjikn1AN0QyGeXXBih_cZW-7x1HtmCaziPFCgvpaDGhSHlRlwFyXc4jgXBhWtgV3wLgLhFB3SyRgb1Y71W0jadj4Ara1MfA0-uRLHAJNEPdII0f_kKBqMO4tqoFdMgGL-8wfbSmWVEk9wUh1z249vv8ynBHkmLdDtQ8lHFGbxjlaWFhmjFQV9PbO4vJTWtsvQBGKRjhu1Czpzjyjv1jACBDpthkQyJmAw~~) |
| Qiuju Bu, Fan Wang, Xiuhua Gao, Guoqing Feng, Zhiyong Chang, Xincheng Chen |

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| [Welding consumable selection for 304B4 borated stainless steel](https://links.springernature.com/f/a/2GpJaOW0OC36GYHKZLxeMA~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkNnb2etTJuZgm06U4D0rWjMGWknT5tDeB-D3XhRjDe41yLNdWYGPo6cZZ1Q8TqlKpEobNh9ACOt2xnePGVIvuIS8O-VRnSU6EDu5FL49MYQaf5zsoGoTaK6YHMVf6vKKWI43yUKvFKCF10hS_gILjjFrqljWr1q5JPdcvsFebuMrqW922KZnPTXgjPJnhZMHmv7hFWnm1x33tzNYW7qnIkd2zuaj-NwWpODzQRHziZk-FYxCuDC3557qsJEGk0jAUHVC-EVAaQocT9ATK9vjJ_Q~~) |
| M. Divya, C. R. Das, M. Vasudevan |

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| [Impact of sandwich joint on mechanical and ballistic performance of high-hardness armor steels](https://links.springernature.com/f/a/2-lpCoDc3RZOgSEA5dvDyA~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkNnb2etTJuZgm06U4D0rWjBk9TG-bBDlzqbZZZY4T983HT1GoyUSrmh0bRnWDmokhNcofeEw6SF_1C74BlpAK59bHVadHL3SRDGPWxVxCQkWtPf7lpQlt6T5ewn9daE5SdMg438w-4c5Sznl88BJgSMmpSbh6M-92JXGgXl_2CYZz6qUx2lDxRBRL45H0RoAPd5O02iN4m6487av5WoGIUySgH6fZv6uKOpCmCCkG1Qbbh_ycQJx5nRMeRyQukM9MWvVGFJMTzg_aieNv-vjwpg~~) |
| Ceren Çelik, Uğur Gürol |

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| [Dynamic prediction of backside weld width: factor analysis and progressive deep learning enhancements](https://links.springernature.com/f/a/Sr28swBSZS1ClWEzaEIeLA~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkNnb2etTJuZgm06U4D0rWjAmmQUU2YWaDVo7LLekq3OdvxpLyuLvNzDMnTKzBacxYpSJolnYRGQuuvZzFREYa7OhkXE2-C4sB8l_pn6lBI1uYB89F5dcj0RjnhAozvYomT-o1IDYE5Kdy1gr5GOf21yq9ikplHZXYsb2JP7uRA2BmP-iOeG5xRWwKpyTbKupHA8udTpTZP83hIzPeVMzPzyNyEqk-8brX55HizOmX-zdIqoPs_te-PhU0vg4VmV_X4DC0A0YK0MSgwLRy5GpJHQ~~) |
| Zhi Zeng, Yuancheng Yang, Junrui Yuan, Bojin Qi |

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| [Transvarestraint testing of high-strength steel filler metal](https://links.springernature.com/f/a/Fpkh5MlYnkH55hexZ27K_A~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkNnb2etTJuZgm06U4D0rWjAKnSlmWTbPUQhGLECqI2ut7QrW7iHDDT-ZLQoDbdglMtU6IQGS6DP-Ztg0lgVdjTkLaIf_SiKKLAg1AtE7aqENXCU6DzJbKWWD7I2GDoVeKQygxjIO2VUKNztKkNPxGVeqLDDQ9d8kahM94zwFvwEALCxVXhNP-Op7H9AEjRz84Xh7G4pu9dPkkbT_bmIpr7Z6y4ZWw6FUB9GTb_oAb0tg6Ci7kGQlTMa3cZvudcpVqXt527Cu4EmYKVzU4mH1J1Q~~) |
| Philipp Liepold, Arne Kromm, Thomas Kannengiesser |

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| [Investigation of restraint intensity influence on solidification cracking of high-strength filler materials in fillet welds via CTS testing](https://links.springernature.com/f/a/ovXLer-7nLWr9WrXkU1M5A~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkNnb2etTJuZgm06U4D0rWjIvikOpKEO1L0kKrNmARiIn4YNMqk8euWOiP8BJKr1EEDQF9wUOwFA1Qp7rLMVypOu6mqW4Z6OfySudf2IJb2KAmyK8CwWBJYetryWeoxxnQ2kZUzbmsAZ9Vm0niOEYl0UxS2Z1CXJjYPtPDXvy31ZxUIlu_LrMnqd5cLRagHxrukjLj7wzW5DYcstbgXDECnwyw6NnpWrbhxvfSALoRpfRgI8Pu13pbizAjb_c0KPfE03wWuKDBOoRngXr9iQmFgA~~) |
| Philipp Liepold, Arne Kromm, Thomas Kannengiesser |

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| [Combined heating rate and restraint condition effect on stress relief cracking during PWHT of thick-walled Cr–Mo-V steel SAW joints](https://links.springernature.com/f/a/chBT7LpN_rDsmHskH1HSxA~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkNnb2etTJuZgm06U4D0rWjLnKIZwzztGw85VX6NP6A3njKcZ8UAn0T2faBrp5ayWf6D2RyBaJKIN-e-P4Ah5iX-F0lNrMUZoMqHeJVFDpVMwd-Ko75PdV7Y2PCWVfpQMa1Y9_Yocr6n5Zlb24_BkvNL37FutjwuXaEl7EF5zbgh_nKMVy0h1GBr8lTnJA2imfagnsLosMTwwm3wIamdB6Sw1G3shcemyOhMYERZO8niR7zxtgMa75DkwodgGGEY65V98TROsnfjHvKS4jxKWKQQ~~) |
| Michael Rhode, Denis Czeskleba, Hannah Fleißner-Rieger, Jonathan Nietzke, Thomas Kannengiesser |

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| [Hybrid ultrasonic arc welding of nickel-based alloys: improved cavitation and grain refinement](https://links.springernature.com/f/a/dDJi24r92bFHNGSkq4vfOA~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkNnb2etTJuZgm06U4D0rWjBCh6DuZc77hbKN2vXSnHWyG8Dd2q-ewBw6C30XtnHey8z8Z9KlcFCBVtnOCG_TPTOViJJirAC70JhTT70kFf1A-jUJgak_nnCkApk7y10v73Xj7Xpz8foTTsB50QiTl9gf6IaKJ43bqbWCvs7jMDjAsPpezJA-q_IhzqR7YXTg6_24aR-q_eWtRxGhwQnEAWORHZox-7vmNfHt2WX7b4nEHJ8Mmq0MchvrS6xAwuVQuiy956DljKI9y2GPk7fcd3Q~~) |
| Yunhao Xia, Bolun Dong, Yangyang Fan, Qihao Chen, Xiaoyu Cai, Sanbao Lin |

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| [Residual stress reduction using a low transformation temperature welding consumable with focus on the weld geometry](https://links.springernature.com/f/a/iWH6Ex7gqOtVsVIoLGBN5g~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkNnb2etTJuZgm06U4D0rWjF0BB66IbSgbA6K74PDmTnJJbdqcc6MheqvjUUCzBBc3RLN6Hr58pBFpPTYGENEhsyuecVmLd5XCWq_kEur2-OPabKW43ENVf9sqJXcjsaQKVoIb5oCvYx3rOZBwfOrqhtvHwHjvw8lwj-08WDUCS1XZShEwYrE17V8yhUjxwh2GTtyh3ABvUGxbJYrISGlzoevIOh7rCRgGimNknirfhPEt5anxYCLhHzbjY9ax9r1qDPnL0UoDn0tmxJWsSGsY9A~~) |
| Martin Hübner, Florian Dittmann, Arne Kromm, Igor Varfolomeev, Thomas Kannengießer |

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| [In-service and repair welding of pressurized hydrogen pipelines–a review on current challenges and strategies](https://links.springernature.com/f/a/Y6hCJGItRwBNjJYSeKySGg~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkNnb2etTJuZgm06U4D0rWjOPzVdmLhbTEoZzTk5J7HzArZMqVz4iuROszsakxycxEQJsTovuW4kqWmGZUmEPA65m13kZeJc7I4aYFbXo37DLfgCBcAm9a3EQ9LtUxYChUtCGG1AoXhANtkneubUWPY_GpPVrMsBOBy_tL6SRZeuLLddHVJ1iT89xHRPGlsC0-kkFK6IgC1ie1RStDN8XcDpLsENEkrxJLsNP3D3wwZ3a3pePl5RdP_mMrx-5m5wiRym1DtbeYSpyyX-YcvxBYpQ~~) |
| Kjell Erxleben, Sebastian Kaiser, Michael Rhode, Thomas Kannengiesser, Arne Kromm |

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| [Influence of repair welding numbers on microstructure and mechanical properties of S355J2G4 steel welded joints](https://links.springernature.com/f/a/6MZzgh4HkPqXOvP9UelPtA~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkNnb2etTJuZgm06U4D0rWjA6IS7mg9eVAH1_UqIF0B4Ois1aJTclalDNbpcWFnk-eGjjzChmZd0rc64UGYHvKl0xv7WygVg7q0XYcN2SLH779AG1TEx6eyoL1BQl3VB1O5iTF5FPkiXRTr1ved6AMb5LIkQUAEDRIAng15Gi9OOszVXVE35NCC8VhwUBcWU1AWZi1jH76v9hUoyEm4knjG6gX-oPxOgigdTQJr_YLg7osvodkoV7fK-FunDAKc_eWlv2K6ilHThvB6PKXIegVIQ~~) |
| Xin Zhao, Chenghao Xie, Haiting Lv, Zhibin Yang |

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| [Process optimization–oriented deformation control of large aluminum alloy structures from high-speed EMU](https://links.springernature.com/f/a/G6BmLBJm3vR5JJOoxRt0Ew~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkeMBFencTvS1n_nCcGR2f9BpqAAc92CYdHUBTAe07QRpVupwgFXmy0i8RerrEr2nCXkSDdBcHWzDnB9MmSXk-AN53-aWOFwjAObSQGrcPE18SR1BXJ5ctx54fSnA2QJxDivluk4MtYoS8YPrkX9GJ0V_MVbWm49ySjEKGuuL4LcI70sp7S-e3h-AGVRMqTk8RttJrlVOa8tADFQ-8lX4vtU7BjYqOuLMeK51riYiEaFF85gnWqcd3euJ4ZV7EbZxx-G0SN46vhVNTQRbWzlxUag~~) |
| Yana Li, Jiahao Liu, Zeyang Zhang, Changlun Dai, Xingfu Yin, Xinpeng Shi |

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| [A comprehensive review of multi-objective optimization of friction stir welding processes](https://links.springernature.com/f/a/0nqFMnvLHSN8g_Ilgf5P3w~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkeMBFencTvS1n_nCcGR2f9J4oyMSln6bSUbLaanDuuz9dqXciBG0th2Yqbe_dv9mCABq-5YFokW7tazif8eVDktzGCfiF8s3zxRAJ1rJkMMmugG6e-htvJEelgXZuxTLo8ghMrarDYaRxwMIQJNy4vLH-cnHcpQAY0r08r_0p8h1IC2Nk68tNciyj0QmOx7fLpUp5lWWalcuK7C3f1eXd7xzbczTlqgKedBE_hcy7QwhB3Z0Rjfeg6yWppgQ7rRbtpHmiqi4KX1n7T9PL5JDigA~~) |
| Arkaprava Ray, Devendra Pendokhare, Shankar Chakraborty |

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| [Research on the welding strategy and welding technology for medium-thick plates based on three-line structured light vision](https://links.springernature.com/f/a/ClbsIWRRjASUWbenkcFpJw~~/AABE5hA~/bt0vpL-2WagOHgiaXIFqU0B90Tbw1_SsRmmFJfm1-LX_N3MjitE4pa2JyVGbWsGkNnb2etTJuZgm06U4D0rWjId5-PxOczN-S-hmpZPL_o8oiICAKF9apfS1cGrOdZGCz0fU_ulKRaw5yPmagebg6xfUAYKAG9Vi6ooljID1AUX6Q7xjvQKBzftlWgXhRU1KkasWJDO8CfpAvnpqvE61LOiaMuSiBozp1LwBpDN1XT-8r7uiKbicT05iIMX4u8gggI1Iw_WSHt4OqrPp6OV5t6kAk0ZZaz-znXFQOES8Eg8983HLB25Hp0nzgALRs-Y3phZjzuKzKPJcqOO9QAqydQ~~) |
| Junjie He, Liyang Cui, Tianqi Wang, Lei Wang |

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