

Journal Papers (Excerpt)

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Wegmann, Tim; Niemöller, Ansgar; Meinke, Matthias; Schröder, Wolfgang - "Parallel Eulerian-Lagrangian coupling method on hierarchical meshes" - Journal of computational physics - vol 521 no Part 1 content/page 113509 - [doi:10.1016/j.jcp.2024.113509](https://doi.org/10.1016/j.jcp.2024.113509)

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Tchoupe Sambou, Elio; Lauwers, Daniel; Petersen, Timm; Herrig, Tim; Klink, Andreas; Meinke, Matthias; Schröder, Wolfgang - "Investigating Workpiece Deflection in Precise Electrochemical Machining of Turbine Blades" - Journal of manufacturing and materials processing - vol 8 no 4 content/page 138 - [doi:10.3390/jmmp8040138](https://doi.org/10.3390/jmmp8040138)

Liu, Xin; Rüttgers, Mario; Quercia, Alessio; Egele, Romain; Pfaehler, Elisabeth; Shende, Rushikesh; Aach, Marcel; Schröder, Wolfgang; Balaprakash, Prasanna; Lintermann, Andreas - "Refining computer tomography data with super-resolution networks to increase the accuracy of respiratory flow simulations" - Future generation computer systems - vol 159 content/page 474-488 - [doi:10.1016/j.future.2024.05.020](https://doi.org/10.1016/j.future.2024.05.020)

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Rüttgers, Mario; Waldmann, Moritz; Vogt, Klaus; Ilgner, Justus Friedrich Rudolf; Schröder, Wolfgang; Lintermann, Andreas - "Automated surgery planning for an obstructed nose by combining computational fluid dynamics with reinforcement learning" - Computers in biology and medicine - vol 173 content/page 108383 - [doi:10.1016/j.compbiomed.2024.108383](https://doi.org/10.1016/j.compbiomed.2024.108383)

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Wegmann, Tim; Meinke, Matthias; Fleischmann, Maximilian; Pischinger, Stefan; Schröder, Wolfgang - "Numerical Analysis of Mixing of Bio-Hybrid Fuels in a Direct Injection Engine with a Pre-Chamber Ignition System" - SAE technical paper - vol 2024-01-2619 content/page 1-16 - [doi:10.4271/2024-01-2619](https://doi.org/10.4271/2024-01-2619)

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Tchoupe Sambou, Elio; Lauwers, Daniel; Herrig, Tim; Klink, Andreas; Meinke, Matthias; Klaas, Michael; Schröder, Wolfgang - "Optical in Situ Analysis of Gas Bubble Evolution in Electrochemical Machining Based on Similarity Theory Using Particle Image Velocimetry" - Procedia CIRP - vol 117 content/page 257-262

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