



Professor

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Background

- 2022-present Gifu University, Center for Advanced and Smart Die Engineering and Technology (G-CADET), Director
- 2022-present Tokai National Higher Education and Research System (THERS), Gifu University, Faculty of Engineering, Department of Mechanical Engineering, Professor
- 2021-2022 Tokai National Higher Education and Research System (THERS), Gifu University, Faculty of Engineering, Department of Mechanical Engineering, Industry Academia Collaboration Professor
- 2021-present Shimane University, Next Generation Tatara Co-Creation Centre(NEXTA), Professor
- 2020-2021 Tokai National Higher Education and Research System (THERS), Gifu University, Faculty of Engineering, Department of Mechanical Engineering, Associate Professor
- 2018-present Gifu University, Center for Advanced and Smart Die Engineering and Technology (G-CADET), Vice Director
- 2009-2019 Gifu University, Faculty of Engineering, Department of Mechanical Engineering, Associate Professor
- 2006 Doctor of Engineering (Nagoya University)
- 1998-2008 Nagoya University, Department of Materials Science and Engineering, Assistant Professor

Research

Metal-forming, Computational dynamics and Additive manufacturing. Automatic identification of flow stress and boundary conditions between die and materials at various temperature and strain rate with inverse analysis based on finite element analysis (FEA). Automatic optimization of manufacturing process conditions with auto-pilot FEA system with machine learning based optimization method. Development of bioactive metal-forming technology with additive manufacturing and plastic deformation.

Key papers

1. A. Kutsukake and Y. Yoshida: "Influence of Surface Asperity Made by Selective Laser Melting Additive Manufacturing on Bioactivity in Rat Femur", *Procedia Manufacturing*, 47, 1101 - 1105, (2020).
2. K. Isik, Y. Yoshida, L. Chen, T. Clausmeyer and A. E. Tekkaya: "Modelling of the Blanking Process of High-carbon Steel Using Lemaitre Damage Model", *Comptes Rendus – Mecanique*, 346, 770 – 778, (2018).

3. Y. Yoshida, T. Ishikawa and T. Sugauma: "Mechanism of Forming Joining on Backward Extrusion Forged Bonding Process", *Advanced Materials Research*, 966 (967), 461 – 470, (2014).
4. Y. Yoshida, K. Kuroda, R. Ichino, N. Hayashi, N. Ogihara and Y. Nonaka: "Influence of Surface Properties on Bioactivity and Pull-out Torque in Cold Thread Rolled Ti Rod-Development of Bioactive Metal-forming Technology", *CIRP Annals-Manufacturing Technology*, 61(1), 579 – 582, (2012).