Academic Curriculum Vitae

Personal Information:

Full Name: Abdulkader Ali Abdulkader
Academic Title: Assist. Prof. Dr.
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Education:

- University of Technology Bagdad Iraq / Production Engineering and Metallurgy / Bachelor of Science 1991

- TU Freiberg / Mech. Eng./ Master of Science 2000

- TU Freiberg / Mech. Eng./ Doctor of Philosophy 2006

Teaching experience:

- Teaching courses for undergraduate and post graduate Students:
    - CAD-CAM-CNC
    - Quality Control in Flied Eng.
    - Additive Manufacturing
    - Manufacturing Technology
- Courses, trainings, lab supervision in CAD-CAM and in AM.

Research and publications

- Salih, Raveen Mohammed; Kadauw, Abdulkader; Zeidler, Henning; Aliyev,z Reo Investigation of LCD 3D Printing of Carbon Fiber Composites by Utilising Central Composite Design, Journal of Manufacturing and Materials Processing 2023 | Journal article, DOI: 10.3390/jmmp7020058 Part of ISSN: 2504-4494

- Ramadhan Gardi; Abdulkader kadauw; Bertrand Hanschel, Effect of Exfoliation Corrosion on the Mechanical Properties of Friction Stir Spot Welded 2024-T3 AA Joints, Advances in Materials Science and Engineering, 2023-01-24 | Journal article, DOI: 10.1155/2023/9629740, Part of ISSN: 1687-8442
- Shwan S.O. Salih; Idres I.A. Hamakhan; Abdulkader A.A. Abdulkader, Investigation of Thermal Performance of 3D Printing Integrated Phase Change Materials in Building Structure, International Journal of Heat and Technology, 2022-06-30 | Journal article, DOI: 10.18280/ijht.400325, Part of ISSN: 0392-8764
- D Abdulamer, A Kadauw, J Bast. 2020: Utilising Flowability Sensor for Green Sand Mould Characterisation Ziggurat Journal of Materials Technology (ZJMT) 1 (1), 13-22S,
- D Abdulamer, A Kadauw. 2019: Development of Mathematical Relationships for Calculating Material-Dependent Flowability of Green Molding Sand, Journal of Materials Engineering and Performance 28 (7), 3994-4001S
- A Kadauw. 2014: Characterization of the parameters of sand moulds in compaction process by use of the industrial computer tomography (ICT) Archives of Metallurgy and Materials 59 (3), 1097-1101
- A Kadauw, J Bast, I Betschwaia. 2010: Simulation eases the work of the foundry technologist Giessereiforschung 62 (7), 28-33
- A Kadauw, J Bast, I Betschwaia. 2010: Simulation erleichtert die Arbeit des Gießereitechnologen Giesserei 97 (7), 28
- A Kadauw, M Junghans, J Bast, B Merkel 2010: First Iraqi-German Universities' Network Conference, academic Book.
- J Bast, A Kadauw, A Malaschkin. 2009: Optimising of moulding parameters for green sand compaction by computer simulation and a new compaction measuring device International Journal of Metalcasting 3 (2), 55-65
- A Kadauw, J Bast, D Eiedler, HC Saewert 2008: Überprüfung der Simulationsergebnisse des Formstoffverdichtungs-prozesses mit der Computertomographie-Formstoff. Verdichtung. mathematische Modellierung. Computertomographie Giesserei-Praxis, 120
- A Kadauw, J Bast, D Fiedler, I Betchvaia, HC Saewert 2007: Computer simulation of squeeze moulding and validation of results using industrial computer tomography (iTC) Archives of Metallurgy and Materials 52 (3), 447-451
- Kadauw, A., Bast, J., A., Fiedler, Betschweia, I, D., Saewert, H. C.2007: Mathematical Modelling of Squeeze Moulding and Comparison of Results using Industrial Computer Tomography (ICT), IX International Conference on Computational Plasticity (COMPLAS IX),ISBN Vol. 2: 978-84-96736-29-0, Barcelona (Spanien), September 2007

- Kadauw A., Bast J., Fiedler D., Betchvaia I., Saewert H. C. 2007: Computer simulation of squeeze moulding and validation of results using Industrial Computer Tomography (ICT), Archives of Metallurgy and Materials, ISSN 1733-490, Vol. 52, 3/2007 Polen
- Bast, J.; Kadauw, A.; Betschweia, I.2007: Formstoffcharakterisierung durch Simulation des Verdichtungsprozesses, Giessrei 94 / 04/2007 S. 54 – 59
- J Bast, A Kadauw, I Betschweia 2006: New methods of the plastic material characterisation of the mathematical modelling compressions of the process Giesserei-Praxis, 181-186
- Kadauw, A.; Bast, J.; Aydogmus, T.: Ermittlung dichteabhängiger Festigkeitsparameter für das Pressen tongebundener Formstoffe zur Verdichtungssimulation, Heft 2006-1, Statusbericht 2005 - Institut –Forschungsbeiträge Gastvorträge "Geotechnisches Seminar", Institut für Geotechnik, TU Bergakademie Freiberg, 2006 ISSN 1611-1605.
- J Bast, A Kadauw, I Betschweia 2006: Fachaufsatze-Neue Methoden der Formstoffcharakterisierung bezuglich der mathematischen Modellierung des Verdichtungsprozesses-Problemstellung. Giesserei Praxis, 181-186
- J Bast, A Malaschkin, A Kadauw 2005: Process control with the compression clay-bound sand form Giesserei 92 (8), 23-32
- J Bast, A Malaschkin, A Kadauw 2005: Prozesssteuerung bei der Verdichtung tongebundener Sandformen, Gießerei 92 (8), 23-37
- Bast, J.; Kadauw, A. 2004: „3D-Numerical Simulations of Squeeze Moulding with the Finite Element Method“. Archives of Mechanical Technology and Automation. Vol 24. Politechnika Poznanska, Poznan. S. 11-20.
- Bast, J.; Kadauw, A.; Betschwaia, I.: Mathematische Modellierung und Simulation der Formstoffverdichtung, Tagungsband Konferenz St. Petersburg. 3.-10. April 2005, St. Petersburg, Russland, ISBN 5-88151-503-X, Seite 184-189.
- Bast, J.; Malaschkin A.; Kadauw, A. 2005: Prozesssteuerung bei der Verdichtung von Grünsandformen, Zeitschrift Giesserei 92, 8/2005, Seite 23-37.
- Bast, J.; Kadauw, A.; Fiedler, D; Saewert, H.C. 2003: „Erste Ansätze zur Anwendung der Industriellen Computertomographie für die Bestimmung der Dichteverteilung in tongebundenen Formen“. Giesserei-Praxis 7/03. S. 285-286.
- Bast, J.; Kadauw, A. 2004: „3D-Numerical Simulation of Squeeze Moulding with the Finite Element Method “. Proceedings of the 66th World Foundry Congress of the World Foundrymen Organization. September 6-9, 2004. Istanbul, Turkey. S. 247-258.

Conferences and courses attended

- **Coordinator** of the 1st International German Summer Academy 2003, TU Bergakademie Freiberg: "Modeling and Simulation of Technical Processes"

- **Co-organizer and coordinator** of the 2nd International German Summer Academy 2005, TU Bergakademie Freiberg: "Modeling and simulation of technical processes"
- **Coordinator** of the International German Academy Course 2006, TU Bergakademie Freiberg: "Modeling and Simulation of Technological Gas Processes"
- **Coordinator** of the International German Academy Course 2007, TU Bergakademie Freiberg: "Modeling and Simulation of Technological Gas Processes"
- **Co-organizer and coordinator** of the 3rd International German Summer Academy 2008, TU Bergakademie Freiberg: "Modeling and Simulation of Technical Processes"
- **Coordinator** of First Iraqi-German Universities' Network Conference Symposium on "Resource Management in The Development of Iraq 29.11-01.12.2010"

Funding and academic awards

- 2001 - 2003: PhD student funded by the Friedrich-Flick-promotion foundation.
- 2003: DAAD Award for Outstanding Academic and Social Achievement for Foreign Students

Professional memberships

- Member of the Association of Engineers in Iraq
- Member of the Association of Engineers in Kurdistan-Iraq
- Member of the Association of German Foundry Association

Professional Social Network Accounts:

ResearchGate
Linkedin
Google Scholar
ORCID