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# applied mathematics and computer science





#### About

The International Journal of Applied Mathematics and Computer Science is a quarterly published in Poland since 1991 by the University of Zielona Góra in partnership with De Gruyter Poland (Sciendo) and historically with the Lubuskie Scientific Society, under the auspices of the Committee on Automatic Control and Robotics of the Polish Academy of Sciences. It strives to meet the demand for the presentation of interdisciplinary research in various fields related to control theory, applied mathematics, scientific computing, and computer science.

In particular, AMCS publishes original, high-quality full-length research papers in the following areas: modern control theory and practice; artificial intelligence methods and their applications; applied mathematics and mathematical optimisation techniques; and mathematical methods in engineering, computer science and biology.

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International Journal of applied mathematics and computer science



# AIMS & SCOPE

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- · modern control theory and practice
- · artificial intelligence methods and their applications
- · applied mathematics and mathematical optimisation techniques
- mathematical methods in engineering, computer science, and biology.

We are primarily interested in presenting theoretical and application-oriented full-length research papers dealing with the following topics:

- control theory, including optimal control, system identification, adaptive and robust control, multivariable control, and non-linear systems
- dynamical systems, including spatiotemporal processes, control problems, state and parameter estimation, and sensor networks
- · fault detection and diagnosis, including model-based approaches, observers, and classifiers
- fault-tolerant control, including the control of continuous-variable and quantised systems
- robotics, including modelling and simulation, mobile robots, and optimal trajectory planning
- mathematical modelling and simulation, including numerical algorithms
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- artificial intelligence, including machine and deep learning, neural networks, fuzzy systems, and search methods
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- · biomedical engineering and biomathematics
- · applications in engineering and medicine.

The editors welcome proposals for exchange between similar journals. Also, all persons interested in bringing out special issues of *AMCS* are encouraged to contact the Editor-in-Chief. Such issues may be published on any important and timely subject within the scope of the journal. All papers proposed for specials should be referred and meet the same criteria for scientific quality as articles presented in regular issues.

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# **CONTENTS**

Orozco, R. and Ratajczak, J. Mathematical aspects of calibration by diffeomorphisms	391
Malinowski, M.T. Qualitative analysis of symmetric fuzzy stochastic differential equations	403
He, J., Zhao, K. and Wang, S. Design of a new chaotic system by a non-smooth controller and its application	417
<b>Fu, X. and Wang, X.</b> Fault detection based on interval observers and dynamic event-triggered fault-tolerant control for morphing aircraft	429
Pazera, M., Sulikowski, B. and Witczak, M. An iterative learning control approach to sensor fault-tolerance in Takagi–Sugeno systems	443
<b>Zhang, K. and Wang, H.</b> Construction and deformation of curves and surfaces based on $\alpha$ -sh basis functions with shape parameters	455
Czapiewska, A., Łuksza, A., Schmidt, J.H., Studański, R., Wojewódka, Ł. and Żak, A. Doppler shift determination methods dedicated to MBFSK modulation	467
Polański, A., Kania, M., Gil, J., Łabaj, W., Lach, E. and Szczęsna, A. Modeling propagation of weakly advantageous mutations in cancer cells	479
Pabian, M., Rzepka, D. and Pawlak, M. Iteration over event space in time-to-first-spike spiking neural networks for Twitter (X) bot classification	493
Mielniczuk, J. and Wawrzeńczyk, A. Accounting for label shift of positive unlabeled data under selection bias	507
Carreon-Rascon, A.S., Li, H., Rozenblit, J.W. and Rafajłowicz, W. Mitigating cyber-intrusions in medical devices with agent-based self-healing	519
Govindarajan, M., Selvaraj, M.S. and Ravi, N. CluM: A clustering-cum-Markov model for resource prediction in a data center	535