name of the unit:

DIVISION OF ARTIFICIAL INTELIGENCE IN LOCALIZATION, TIME SERIES ANALYSIS, TIME SERIES FORECASTING AND DIGITAL WATERMARKING

Institute of Information Technology, Lodz University of Technology

symbol:

I-72

http://it.p.lodz.pl

head of the unit:	potential promoters:	contact person:
dr hab. inż. Piotr Lipiński	dr hab. inż. Piotr Lipiński	Piotr Lipiński tel: 42-631.-27-96 piotr.lipinski@p.lodz.pl

scope of activities:

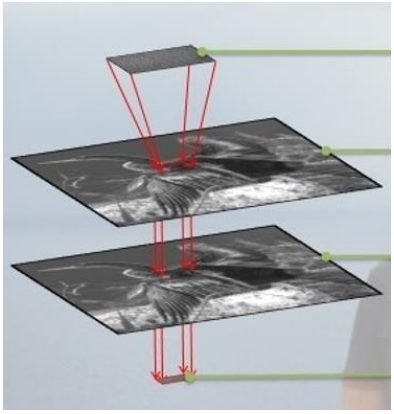
- Intelligent data fusion algorithms for object localization,
- Time series analysis using adaptive transforms,
- Intelligent algorithms for time series forecasting,
- Digital Watermarking algorithms for images using artificial intelligence, ◎ Steganographic algorithms for images.

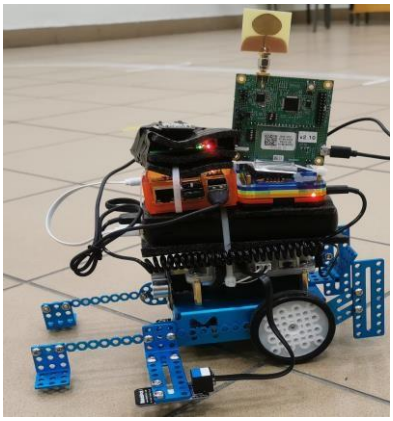
present activities:

We are currently working on:

- Real-time Indoor locating system algorithms for noisy measurement data acquired by wireless systems
- Time series analysis and intelligent algorithms development for ecodriving system in havy duty trucks (The National Centre for Research and Development project)
- Algorithms for crypto-currency price forecasting using Deep Neural Networks
- Intelligent anomaly detection algorithms using distrubuted ledger technology for cloud applications (The National Centre for Research and Development project)
- Intelligent algorithms for indoor environment control and Energy consumption reduction (The National Centre for Research and Development project)

graphic material





Future activities:

Continuation of present activities

The portfolio of research groups was created as part of the Programme "STER" – Internationalisation of doctoral schools" as part of the realization of the project "Curriculum for advanced doctoral education & taining – CADET Academy of Lodz University of Technology".

Keywords:
Indoor localization, artificial intelligence, data fusion, ecodriving, time series forecasting, crypto forecasting, cluster anomaly detection.

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