



Intelligent knowledge-based IT systems with advanced applications

Course author: prof. dr hab. inż. Edward Szczerbicki, prof. zw. PG (WZiE)

Topics:

1. Information and knowledge: Introduction to smart information systems (2 hours)
2. Information and knowledge representation, modelling, and formalisation (2 hours)
3. IT Bio-Inspired systems for information and knowledge processing (2 hours)
4. Experience engineering for IT systems and the role of experience in knowledge generation and acquisition (1 hour)
5. Knowledge-based information systems: information transfer into useful knowledge (1 hour)
6. Semantic networks for collaboration between machines and humans (1 hour)
7. Intelligent and smart systems development: the role of soft modelling and artificial intelligence (1 hour)
8. Smart knowledge-based management and control (1 hour)
9. Towards e-Decisional community and knowledge markets: knowledge-based collaboration networks (1 hour)
10. Security and trust in information systems: towards full introduction of semantic IT networks (1 hour)
11. Advanced end user applications and real life case studies (2 hours)
 - Geothermal green energy
 - Industrial maintenance
 - Smart multimedia systems
 - Data mining for Internet crawling
 - Intelligent diagnosis information systems for medical applications

Robotics and embedded IT system



TERMINY WYKLADÓW			
Data	Dzień tygodnia	Godzina	Sala
2014-10-08	Śr	17.00-20.00	GG 400A
2014-10-09	Cz	16.15-19.00	GG 400A
2014-10-10	Pt	16.15-19.45	GG 400A
2014-10-11	So	8.00-13.00	GG 400A