

An enhanced situational awareness of a mission for an autonomous vehicle by multirate control

Astrov, Igor; Pedai, Andrus Proceedings of the 5th WSEAS International Conference on Dynamical Systems and Control :

CONTROL'09 : La Laguna, Spain, July 1-3, 2009 2009 / p. 33-39

https://www.researchgate.net/publication/228809791_An_enhanced_situational_awareness_of_a_mission_for_an_autonomous_underwater_vehicle_by_multirate_control

Comparison of single-rate and two-rate neural control approaches for coaxial rotor/ducted-fan UAV for situational awareness applications

Pedai, Andrus; Astrov, Igor; Udal, Andres 2018 IEEE 16th International Symposium on Intelligent Systems and Informatics (SISY),

13-15 Sept. 2018 : proceedings 2018 / p. 63-68 : ill <http://dx.doi.org/10.1109/SISY.2018.8524720>

Control of hovering manoeuvres in unmanned helicopter for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Proceedings of the 2009 IEEE International Conference on Mechatronics and Automation : August 9-

12, Changchun, China 2009 / p. 143-146 : ill <https://ieeexplore.ieee.org/document/5156580>

Decentralized partitioning and simulation of three-rate stochastic multidimensional continuous-time state-space models

Astrov, Igor; Em, Juri; Pedai, Andrus; Rüstern, Ennu Proc. 4th Portuguese Conference on Automatic Control (CONTROLO'2000)

2000 / p. 226-231

Decentralized partitioning of centralized controller on three-rate subcontrollers for the multidimensional stochastic state-space continuous-time model of an experimental aircraft

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Proc. 14th International Conf. Systems for Automation of Engineering and Research

2000 / p. 62-66

Demand and supply chain simulation in telecommunication industry by multi-rate expert systems

Pedai, Andrus; Astrov, Igor Proceedings of World Academy of Science, Engineering and Technology 2008 / p. 268-270 : ill

Demand and supply chain simulation in telecommunication industry by multi-rate expert systems [Electronic resource]

Pedai, Andrus; Astrov, Igor WCSET 2008 CD-ROM proceedings : 2008 World Congress on Science, Engineering and Technology

(WCSET 2008, Prague, Czech Republic, July 25-27, 2008) 2008 / p. 268-270 [CD-ROM]

Depth controls of an autonomous underwater vehicle by neurocontrollers for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Proceedings of the World Academy of Science, Engineering and Technology 2009 / 55, p. 486-489

Depth controls of an autonomous underwater vehicle by neurocontrollers for enhanced situational awareness

[Electronic resource]

Astrov, Igor; Pedai, Andrus WCSET 2009 CD-ROM proceedings : International Conference on Marine and Naval Engineering

ICMNE 2009. 2009 World Congress on Science, Engineering and Technology : WCSET 2009 : Oslo, Norway, July 29-31, 2009 2009

/ p. 486-489 [CD-ROM]

Depth multirate control of an autonomous underwater vehicle for enhanced situational awareness [Electronic resource]

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu RoViSP'09 CD-ROM proceedings : 7th International Conference on Robotics, Vision,

Signal Processing and Power Applications "Sustaining Engineers of Tomorrow" : Awana Porto Malai, Langkawi Island, Malaysia,

December 19-20, 2009 2009 / [8] p. [CD-ROM]

Design of three-rate continuous-time subcontrollers for the multidimensional stochastic state-space model of an experimental aircraft

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic

Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 277-280 : ill

Desired trajectory generation of a quadrotor helicopter using hybrid control for enhanced situational awareness

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Proceedings of the 2010 IEEE International Conference on Information and

Automation : June 20-23, Harbin, China 2010 / p. 1003-1007 : ill <https://ieeexplore.ieee.org/document/5512295>

Development of artificial intelligence towards singularity

Pedai, Andrus; Astrov, Igor World Academy of Science, Engineering and Technology. Knowledge and innovation engineering 2014

/ p. 81

Enhanced situational awareness for AUV's stochastic model by multirate neural control

Astrov, Igor; Pedai, Andrus SysCon 2010 Proceedings : 2010 IEEE International Systems Conference (SysCon 2010), San Diego,

California, USA, April 5-8, 2010 2010 / p. 66-70 : ill <https://ieeexplore.ieee.org/document/5482465>

Enhancing situational awareness by means of hybrid adaptive neural control of vertical flight in unmanned helicopter

[Electronic resource]

Pedai, Andrus; Astrov, Igor ICCAS 2008 CD-ROM proceedings : International Conference on Control, Automation and Systems

2008 (ICCAS 2008, Seoul, Korea, October 14-17, 2008) 2008 / p. 329-332 [CD-ROM] <https://ieeexplore.ieee.org/document/4694666>

Enhancing situational awareness through multirate control of an autonomous underwater vehicle

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Proceedings of the 2009 IEEE International Conference on Mechatronics and Automation : August 9-12, Changchun, China 2009 / p. 1184-1189 : ill <https://ieeexplore.ieee.org/document/5246459?reload=true&arnumber=5246459>

Enhancing situational awareness through neural regulation of take-off and landing manoeuvres in unmanned helicopter

Astrov, Igor; Pedai, Andrus Recent advances in computational intelligence, man-machine systems and cybernetics : proceedings of 7th WSEAS International Conference on Computational Intelligence, Man-machine Systems and Cybernetics (CIMMACS'08) : Cairo, Egypt, December 29-31, 2008 2008 / p. 29-34
https://www.researchgate.net/publication/228896465_Enhancing_situational_awareness_through_neural_regulation_of_take-off_and_landing_manoeuvres_in_unmanned_helicopter

Flight control of a trirotor mini-UAV for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Proceedings of the World Academy of Science, Engineering and Technology 2010 / p. 271-277 : ill <https://zenodo.org/records/1060629>

Flight control of a trirotor mini-UAV for enhanced situational awareness [Electronic resource]

Astrov, Igor; Pedai, Andrus ICAAE 2010 CD-ROM Proceedings : International Conference on Aeronautical and Astronautical Engineering : Amsterdam, Netherlands, September 28-29, 2010 2010 / p. 316-322 [CD-ROM]

Flight control of UAV with coaxial rotor and ducted fan configuration by NARMA-L2 controllers for enhanced situational awareness

Astrov, Igor; Pedai, Andrus; Gordon, Boris World Academy of Science, Engineering and Technology 2012 / p. 75-81 : ill <https://publications.waset.org/13553/flight-control-of-tuav-with-coaxial-rotor-and-ducted-fan-configuration-by-narma-l2-controllers-for-enhanced-situational-awareness>

Flight control of UAV with coaxial rotor and ducted fan configuration by NARMA-L2 controllers for enhanced situational awareness [Electronic resource]

Astrov, Igor; Pedai, Andrus; Gordon, Boris ICCEA 2012 CD-ROM Proceedings : [International Conference on Computer Engineering and Applications (ICCEA 2012) : Copenhagen, Denmark, June 11-12, 2012] 2012 / p. 75-81 : ill [CD-ROM]
<https://publications.waset.org/13553/flight-control-of-tuav-with-coaxial-rotor-and-ducted-fan-configuration-by-narma-l2-controllers-for-enhanced-situational-awareness>

Flight trajectory control of an eight-rotor UAV for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Recent Researches in System Science : proceedings of the 15th WSEAS International Conference on Systems (part of the 15th WSEAS CSCC Multiconference) : Corfu Island, Greece, July 14-16, 2011 2011 / p. 77-82
<http://www.wseas.us/e-library/conferences/2011/Corfu/SYSTEMS/SYSTEMS-10.pdf>

Fuzzy logic control of three-rate decentralized optimal control submodels of the Lockheed L1011 Tristar aircraft

Astrov, Igor; Pedai, Andrus Proceedings of the 5th IEEE International Conference on Intelligent Engineering Systems : Helsinki, 2001 2001 / p. 41-46

Modelling and simulation of autonomous vehicles and systems and their advanced control methods = Autonomsete sõidukite ja süsteemide ning nende täiustatud juhtimismetoodikate modelleerimine ja simuleerimine

Pedai, Andrus 2021 https://www.ester.ee/record=b5391357*est <https://digikogu.taltech.ee/et/Item/654ccb12-0d81-4ae2-ae07-11248063913c>
<https://doi.org/10.23658/taltech.9/2021>

Motion control of UAV having eight rotors for enhanced situational awareness

Astrov, Igor; Pedai, Andrus World Academy of Science, Engineering and Technology 2011 / p. 694-701 : ill <https://zenodo.org/records/1070115>

Motion control of X4-flyer for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Latest trends on systems : 14th WSEAS International Conference on Systems : Greece, July 22-24. Vol. 1 2010 / p. 123-128: ill https://www.researchgate.net/publication/228503868_Motion_control_of_X4-flyer_for_enhanced_situational_awareness

Multirate depth control of an AUV by neural network predictive controller for enhanced situational awareness [Electronic resource]

Astrov, Igor; Pedai, Andrus 5th International Symposium on Computational Intelligence and Intelligent Informatics (ISCII 2011) : Floriana, Malta, September 15-17, 2011 : proceedings 2011 / p. 47-52 [CD-ROM] <https://ieeexplore.ieee.org/document/6069740>

Multirate depth control of an AUV by neurocontroller for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Advances in Computational Intelligence, Man-Machine Systems and Cybernetics 2010 / p. 21-26 : ill https://www.researchgate.net/publication/228917649_Multirate_depth_control_of_an_AUV_by_neurocontroller_for_enhanced_situational_awareness

Multi-rate expert systems in supply chain simulation for telecommunication industry [Electronic resource]

Pedai, Andrus; Astrov, Igor WiCOM 2008 CD-ROM proceedings : 4th International Conference on Wireless Communications, Networking and Mobile Computing (WiCOM 2008) : Dalian, China, October 12-17, 2008 2008 / [4] p. : ill. [CD-ROM]

Multirate neural control for AUV's increased situational awareness during diving tasks using stochastic model

Astrov, Igor; Pedai, Andrus Proceedings of the World Academy of Science, Engineering and Technology 2010 / p. 337-343 : ill
https://www.researchgate.net/publication/290764780_Multirate_neural_control_for_AUV's_increased_situational_awareness_during_diving_tasks_using_stochastic_model

Multirate neural control for AUV's increased situational awareness during diving tasks using stochastic model [Electronic resource]

Astrov, Igor; Pedai, Andrus ICMISE 2010 CD-ROM proceedings : International Conference on Machine Intelligence and Systems Engineering : Singapore, December 18-20, 2010 2010 / p. 214-220 [CD-ROM]

Nanotechnology in military development

Pedai, Andrus; Astrov, Igor World Academy of Science, Engineering and Technology. International journal of chemical, nuclear, materials and metallurgical engineering 2014 / p. 1121-1125 : ill

Proactive approach to innovation management

Pedai, Andrus; Astrov, Igor World Academy of Science, Engineering and Technology. International journal of social, education, economics and management engineering 2014 / p. 2241-2245 : ill

Simulation of three-rate neural and neuro-fuzzy hybrid control for the multidimensional stochastic model of a fighter aircraft

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu SCI 2004 : the 8th World Multi-Conference on Systemics, Cybernetics and Informatics : July 18-21, 2004, Orlando, Florida, USA. Vol. 8 : proceedings 2004 / p. 351-356

Simulation of two-rate adaptive hybrid control with neural and neuro-fuzzy networks for stochastic model of an experimental aircraft

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Proceedings of the International Conference on Cybernetics and Information Technologies, Systems and Applications (CITSA 2004) [and] 10th International Conference on Information System Analysis and Synthesis (ISAS 2004) : Orlando, Florida, USA. Vol. 2 2004 / p. 295-300

Simulation of two-rate adaptive hybrid control with neural and neuro-fuzzy networks for stochastic model of missile autopilot

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu WCICA 2004 : Fifth World Congress on Intelligent Control and Automation : June 15-19, 2004, Hangzhou, China : conference proceedings. Vol. 3 2004 / p. 2603-2607 : ill

Simulation of two-rate adaptive neural network and fuzzy logic hybrid control for stochastic model of an experimental aircraft

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Canadian Conference on Electrical and Computer Engineering 2004 = Conference canadienne en genie electrique et informatique : May 2-5, 2004, Fallsview Sheraton, Niagara Falls, Canada : proceedings. Vol. 1 2004 / p. 125-128 : ill

Simulink/MATLAB based comparison of neural and basic tracking control for an autonomous surface vessel for situation awareness applications

Astrov, Igor; Udal, Andres; Pedai, Andrus; Sell, Raivo 2019 IEEE 19th International Symposium on Computational Intelligence and Informatics and 7th IEEE International Conference on Recent Achievements in Mechatronics, Automation, Computer Sciences and Robotics (CINT-MACRo) 2019 / p. 000105 - 000110 : ill

Single-Rate versus Three-Rate Neural Assisted Control Approaches for Coaxial Rotor Ducted Fan TUAV for Situation Awareness Applications

Pedai, Andrus; Astrov, Igor; Udal, Andres; Sell, Raivo 2019 IEEE International Systems Conference (SysCon 2019), Orlando, FL, USA, April 8-11, 2019 2019 / p. 457-463 : ill <https://doi.org/10.1109/SYSCON.2019.8836871>

Situational awareness based flight control of a drone [Electronic resource]

Astrov, Igor; Pedai, Andrus 2011 IEEE International Systems Conference (SysCon 2011) : Montreal, Quebec, Canada, April 4-7, 2011 : proceedings 2011 / p. 574-578 [CD-ROM] <https://ieeexplore.ieee.org/document/5929033>

Situational awareness based flight control of a four-rotor type UAV

Astrov, Igor; Pedai, Andrus Recent Researches in Automatic Control : 13th WSEAS International Conference on Automatic Control, Modelling and Simulation (ACMOS'11) : Lanzarote, Canary Islands, Spain, May 27-29, 2011 2011 / p. 63-68
https://www.researchgate.net/profile/Andrus-Pedai/publication/228410099_Situational_awareness_based_flight_control_of_a_four-rotor_type_UAV/links/0a85e52e763a72405e000000/Situational-awareness-based-flight-control-of-a-four-rotor-type-UAV.pdf?origin=scientificContributions

Situational awareness based flight control of a three-rotor mini-aircraft

Astrov, Igor; Pedai, Andrus New aspects of automatic control, modelling and simulation 2010 / p. 71-76

Situational awareness based on neural control of an autonomous helicopter during hovering manoeuvres

Astrov, Igor; Pedai, Andrus Proceedings of 5th International Conference on Electrical and Computer Engineering (ICECE 2008) : Dhaka, Bangladesh, December 20-22, 2008 2008 / p. 857-860 <https://ieeexplore.ieee.org/document/4769331>

Three-rate neural control of UAV with coaxial rotor and ducted fan configuration for enhanced situational awareness

Astrov, Igor; Pedai, Andrus 2012 International Conference on Control, Automation and Information Sciences (ICCAIS) : [Ho Chi Minh City, Vietnam, November 26-29, 2012 : proceedings] 2012 / p. 78-83 : ill <https://ieeexplore.ieee.org/document/6466634>

Two-rate neural control of UAV with coaxial rotor and ducted fan configuration for enhanced situational awareness

Astrov, Igor; Pedai, Andrus; Gordon, Boris Proceedings of 9th International Conference 2012 ELEKTRO : May 21 - 22, 2012, Žilina-Rajecké Teplice, Slovakia 2012 / p. 159-164 : ill <https://ieeexplore.ieee.org/document/6225630>