Shuai Xu

Education

Northwestern Polytechnical University (NWPU)

Xian, Shaanxi

Undergraduate student in Detection, Guide and Control Technology

Sep. 2014 - Present

Experience

Intelligent Information Processing Lab

NWPU

Research assistant Tutors: Prof. Wen Jiang & Prof. Yong Deng

Apr. 2016 - Present

Research fields: The Physarum model; Traffic assignment problem; Information fusion

Assist Prof. Yong Deng in reviewing the manuscripts of Applied Soft Computing and Science China Information Sciences

Dance Robot Innovation Team

NWPU

Member of Electronic group, Leader of the basketball robot group

Sep. 2015 - Present

Responsible for the PCB designing, the underlying driver program and the debugging of the basketball robot and the dance robot. As a leader of the basketball robot group to organise the program, including procurement and account management

Preprints and Publications....

- 1): **Shuai Xu**, Wen Jiang*, A Physarum-inspired model for the probit-based stochastic user equilibrium problem. International Journal of Unconventional Computing (Accepted)
- 2): **Shuai Xu**, Wen Jiang*, Yehang Shou, A modified Physarum-inspired model for the user equilibrium traffic assignment problem. Applied Mathematical Modelling (Major revision)
- 3): **Shuai Xu**, Wen Jiang*, Yongchuan Tang, An efficient Physarum-inspired model for the user equilibrium traffic assignment problem with elastic demand. Physica D (Under review)
- 4): Yongchuan Tang*, Deyun Zhou, **Shuai Xu**, Zichang He, A weighted belief entropy-based uncertainty measure for multi-sensor data fusion, Sensors (Online published)
- 5): Yongchuan Tang*, Deyun Zhou, **Shuai Xu**, Zichang He, An improved Physarum solver for fuzzy supply chain network, Discrete Dynamics in Nature and Society (Under review)
- 6): Yongchuan Tang*, Deyun Zhou, Zichang He, **Shuai Xu**, An improved belief entropy-based uncertainty management approach for sensor data fusion, International Journal of Distributed Sensor Networks (Accepted)
- 7): **Shuai Xu**, Zichang He, Tao Wen, Jiang Wen*, A Physarum-inspired model for the path planning of Uninhabited Combat Air Vehicle, the 8th China Information fusion conference (In Chinese, Accepted)

National Innovation Training Program.....

1): Research on Intelligent Technology of Bicycle Safety (**Leader of the program**)

May. 2016 – Present

2): Medical image segmentation based on evidence theory and its accomplishment in FPGA May. 2016 - Present

Honor & Award

| Honorable Mention in Mathematical Contest In Modeling/ Interdisciplinary Contest in Modeling | Jan. 2017 |
|--|-----------|
| China robot competition 2016, Changsha, Hunan | Oct. 2016 |
| Champion in Dancing Robot Pursuit Heterogeneous | |
| Run-up in Basketball Autonomous Robot | |
| The Saibao special scholarship | Dec. 2016 |
| First Prize in the 17th Northwestern Polytechnical University Mathematical Modelling Contest | Jun. 2016 |
| National Encouragement Scholarship | Dec. 2015 |
| Second Prize in smart car competition of NWPU | Dec. 2015 |

Skills

| Professional | |
|--|---|
| o C, Python | Matlab, Latex |
| Keil, Cortex-M3 and M4 series developing | Altium Designner, PCB designing |
| Personal | |
| Self-motivation | o cooperative |
| inventiveness | o industriousness |