

# Swarm Robotics

Development and optimisation through AI

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Duvivier Valentin

- Ant colony
- Fish Schooling

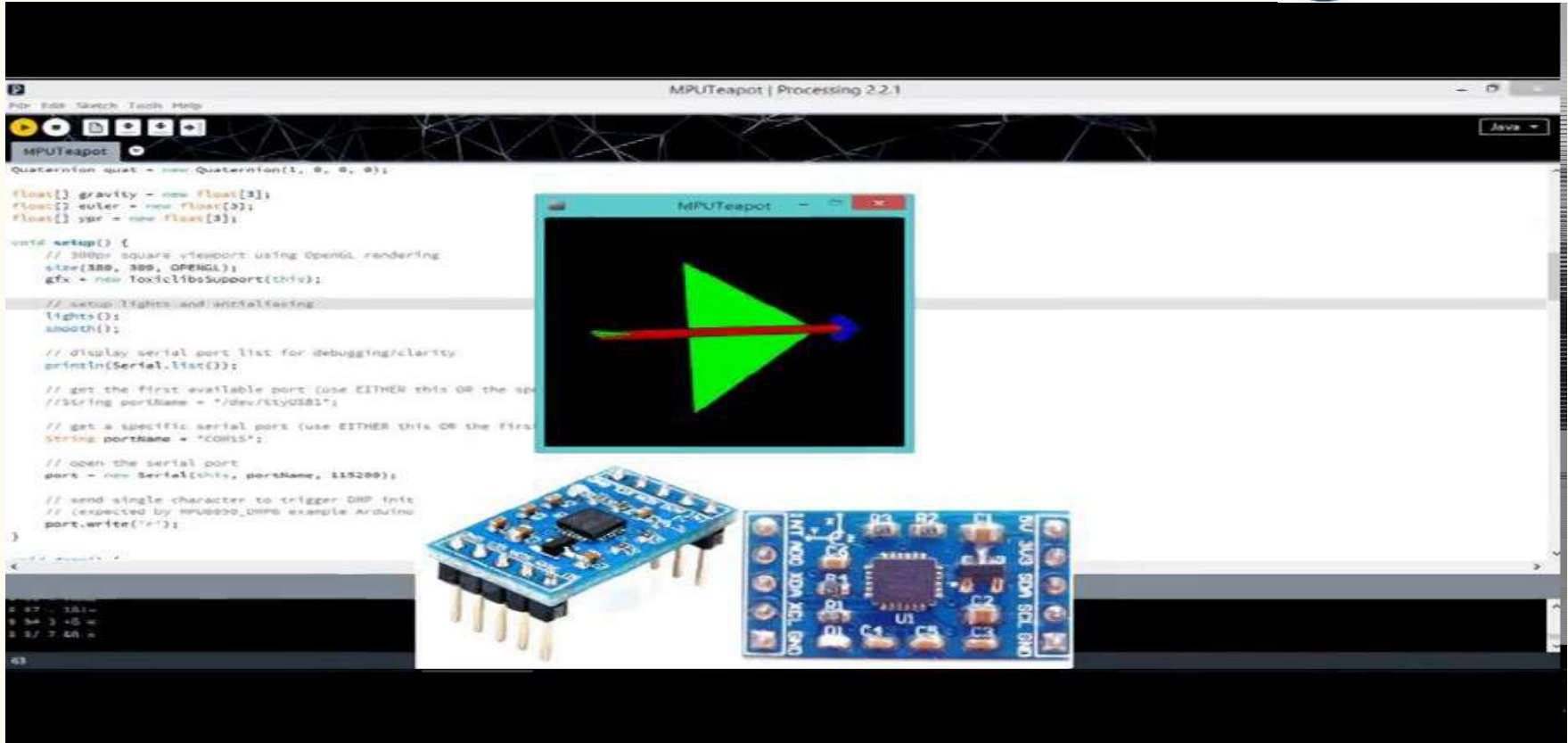


# Hardware

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# IMU - GPS - Magnetometer

- Angular rate
  - Acceleration components
  - True North
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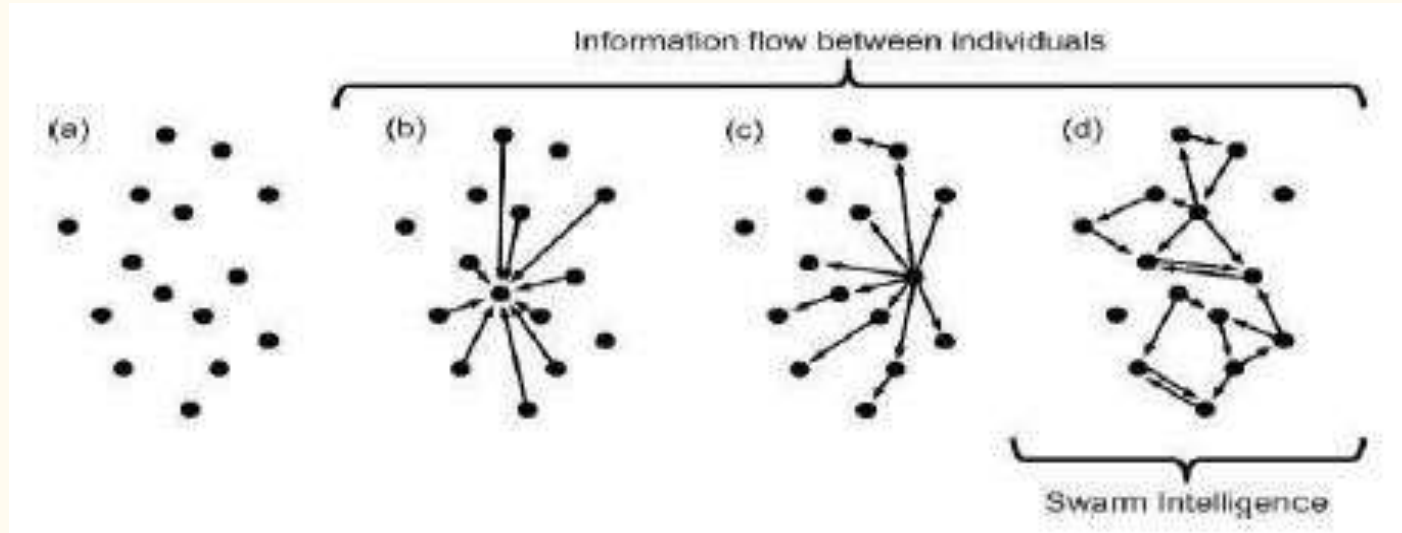
# Software : Communication - Algorithms

# Communication :

- IR
- Light signals

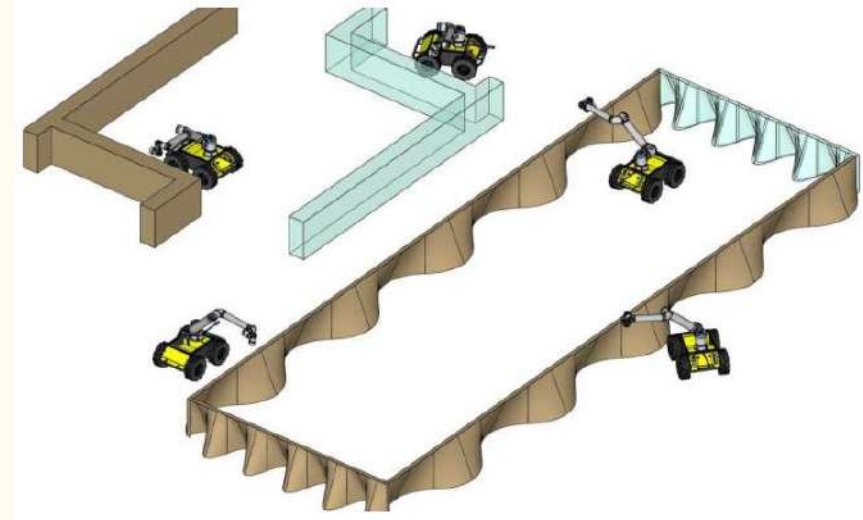


# Artificial intelligence





# Ex : Natural and manmade disasters



# Conclusion

- Position Mapping
- Group-Learning
- Artificial Intelligence enhancement

# Bibliography

[ 1 ] Article in IAENG International Journal of Computer Science · May 2019

[ 2 ] Swarm Robotics: New Horizons in Military Research (MAY 23, 2018)

ABISHUR PRAKASH

[ 3 ] Intelligent Systems and Robotics Swarm Robots Move Toward  
Real-World Applications