



Horizon 2020
European Union funding
for Research & Innovation

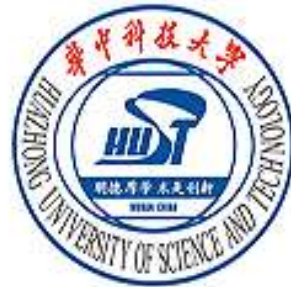


STEP2DYNA

Newcastle Workshop (3)

@The Biscuit Factory, Newcastle, NE2 1AN UK

Project Acronym: STEP2DYNA – Project Number: 691154



Huazhong University of
Science and Technology



Basic Information

- Marie Skłodowska-Curie Actions (MSCA)
- Research and Innovation Staff Exchange (RISE)
- H2020-MSCA-RISE-2015

- Project Acronym: STEP2DYNA
- Project Number: 691154
- Project Period: 01/07/2016-30/06/2020
- Total budget: €1,008,000.00

Work Packages (WPs)

- WP1: Collision detection visual neural systems modelling
- WP2: Multiple visual neural systems coordination for robust collision detection
- WP3: Neuro-vision sensor design, simulation and testing
- WP4: Collision detection and avoidance systems for robots and UAVs

- WP5: Joint workshops, conference and dissemination
- WP6: Project management and market exploitation

Collaboration & Involvements

Table B1: List of Work Packages

Work package no.	Work package title	<i>Beneficiary/Partner organisation short name</i>	Start month	End month
1	Collision detection visual neural system modelling	UoL, UNEW, KU, UBA, XJTU, TU	01	48
2	Multiple visual neural systems coordination for robust collision detection	XJTU, UoL, UHAM, UNEW	01	48
3	Robust neural vision chip design	TU, UHAM, UoL	01	48
4	Collision detection and avoidance systems for mobile robots and UAVs	UHAM, TU, UoL, XJTU	01	48
5	Joint workshops, conference and dissemination	All partners	00	48
6	Project management and exploitation	All partners	00	48

Main activities in Numbers

- Staff secondments
 - 273 months of secondments (224 EU funded)
 - minimum secondment time is 1 month (added up)
 - max secondment time is 12 months (added up)
 - have detailed plan (see part A)
- 5 workshops
 - kick off workshop, done
 - Other 4 workshops
- 2 training seminars

Table B5. Deliverables List

Deliverable No	Deliverable Name	Work Package No	Lead Participant Short Name	Nature	Dissemination Level ¹	Delivery Month
D1.1	Preliminary visual neural system models for collision cues extraction	1	UoL		PU	12
D1.2	Interim refined visual neural system models	1	UoL		PU	30
D1.3	Final visual neural system models	1	UoL		PU	46
D2.1	Visual neural systems integration for single cue extraction enhancements	2	XJTU		PU	18
D2.2	Multiple visual neural system integration via simulation	2	XJTU		PU	30
D2.3	Multiple visual neural system integration via robot developmental methods	2	XJTU		PU	46
D3.1	Identified visual neural systems for realization	3	TU		PU	12
D3.2	Neural vision chip structure identification	3	TU		PU	24
D3.3	Noise test and refine components	3	TU		PU	36
D3.4	Final report to describe the design and fabrication of the neural vision chips	3	TU		CO	46
D4.1	Implementation of visual neural systems to a robotic platform	4	UHAM		PU	14
D4.2	Preliminary demonstrator system for robust collision detection	4	UHAM		PU	28
D4.3	Refined demonstrator system against complex background	4	UHAM		PU	46
D5.1	Kick off workshop	5	UoL		PU	1
D5.2	Project website	5	UoL		PU	4
D5.3	The first and second training seminars	5	UoL		PU	22
D5.4	All the workshops have been delivered	5	UoL		PU	46
D6.1	Consortium agreement	6	UoL		PU	0
D6.2	Periodic technical and management report	6	UoL		PU	24
D6.3	Market exploitation plan and progress	6	UoL		PU	40
D6.4	Final technical and management report	6	UoL		PU	48

Table B6: List of Milestones

List of milestones					
Milestone	Milestone name	WPs	Lead Beneficiary/ Partner organisation	Delivery date (M- month)	Comments
M.1	Formation of the management board during contract negotiation	WP5	UoL	Prior to project start	
M.2	Kick off workshop	WP5	UoL	M01	
M.3	Preliminary visual neural models	WP1	UoL	M12	Refined by M30
M.4	Multiple models integration	WP2	XJTU	M24	
M.5	Neural vision chip structure & components refinement	WP3	TU	M36	
M.6	The demonstrator system	WP4	UHAM	M46	
M.7	Final technical and management report	WP6	UoL	M48	

Management Structure

- The research management board
 - All PIs, chaired by SY
 - Meet at least once a year (incl. Skype meeting)
- Specific management responsibilities
 - Secondments, finances
 - Deliverables, synergies
 - Website, internal/external communications
 - Periodic reporting of progress/activities

Key indicator of success

- Planned research & outcomes (partners)
- Planned detailed secondments, workshops, and other networking events
- The total number of secondment months, are the key indicators through out of the project (REA)

Thanks

- 4th workshop & seminar
- Feb 2018
- In Hamburg?



Executive Agency

Research Executive Agency (REA)

Marie Skłodowska-Curie Research and Innovation Staff Exchanges



Questions/discussion