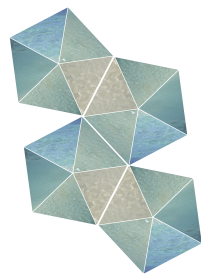




**CODESIGN 2017 | UNIVERSITY OF BREMEN**

**The Bremen Summer of  
COGNITION AND DESIGN.**



**CODESIGN | MINDS. EXPERIENCES. TECHNOLOGIES.**  
<http://hcc.uni-bremen.de/codesign2017/>

# ABOUT

The Human-Centred Cognitive Assistance Lab. at the University of Bremen cordially invites you to engage with CoDesign 2017: The Bremen Summer of Cognition and Design. CoDesign 2017 includes a series of mutually complementary events in the areas of artificial intelligence, spatial cognition, design computing and cognition, creativity, multi-modality, communication and media, and human-behaviour studies

## CODESIGN \ MINDS. EXPERIENCES. TECHNOLOGIES.

Spatial cognition and computation, embodied design thinking, and human-centred design engineering from the viewpoints of diverse design domains are of prime focus. Design areas being considered include architecture and the built environment, product design, (digital) narrative media design, and visual art design in its many diverse forms. The synthesis of visuo-locomotive and visuo-auditory cognitive experience from the viewpoints of evidence-based architectural design and media design (e.g., film, animation, immersion) is of special interest. CoDesign 2017 offers a series of seminars and lectures by leading international researchers, workshops & symposia, tutorials, experiments in visual perception, and public lectures & exhibitions.

CoDesign 2017 events offer a discussion point for the development of projects, collaborations, and other international people-exchange initiatives at the interface of **artificial intelligence, cognitive science, psychology, human-computer interaction, and design studies.**

## PEOPLE

Australia | Finland | Germany  
India | Japan | Poland | USA

## SEMINARS

Ten Research Seminars hosted  
at the University of Bremen

## LECTURES

Five Public Lectures

## WORKSHOPS

MELBOURNE, AU  
MUMBAI, IN

## TUTORIALS

MELBOURNE, AU  
L'AQUILA, IT  
OSNABRÜCK, DE

## EXHIBITION

House of Science /  
Hause der Wissenschaft  
BREMEN, DE

## EXPERIMENTS

HCC Lab  
University of Bremen

## THE (CO)DESIGN ROUNDTABLE

Australia | Germany | Italy  
Japan | Sweden | USA

## CODESIGN 2017

<http://hcc.uni-bremen.de/codesign2017/>

# PEOPLE

**PROF. BIPIN INDURKHYA**  
**IIIT HYDERABAD & AGH UNIVERSITY**

PROFESSOR OF COMPUTER SCIENCE & COGNITIVE SCIENCE  
IIIT HYDERABAD, INDIA  
AGH UNIVERSITY, POLAND



**PROF. MEHUL BHATT**  
**UNIVERSITY OF BREMEN**

HUMAN-CENTRED COGNITIVE ASSISTANCE  
DEPARTMENT OF COMPUTER SCIENCE  
UNIVERSITY OF BREMEN, GERMANY



**PROF. DANIEL LEVIN**  
**VANDERBILT UNIVERSITY**

PROFESSOR OF PSYCHOLOGY AND HUMAN DEVELOPMENT  
VANDERBILT UNIVERSITY, UNITED STATES



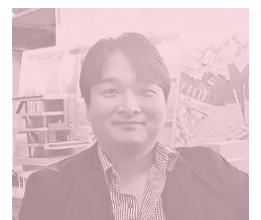
**PROF. JAMES CUTTING**  
**CORNELL UNIVERSITY**

SUSAN LINN SAGE PROFESSOR OF PSYCHOLOGY  
CORNELL UNIVERSITY, UNITED STATES



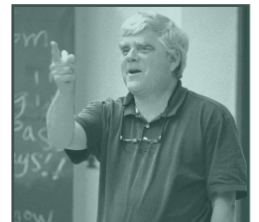
**DR. JUHYUN LEE**  
**THE UNIVERSITY OF NEWCASTLE**

SENIOR LECTURER: SCHOOL OF ARCHITECTURE AND BUILT ENVIRONMENT  
THE UNIVERSITY OF NEWCASTLE, AUSTRALIA



**PROF. CLAYTON LEWIS**  
**UNIVERSITY OF COLORADO**

PROFESSOR OF COMPUTER SCIENCE  
FELLOW: INSTITUTE OF COGNITIVE SCIENCE  
UNIVERSITY OF COLORADO, UNITED STATES



**PROF. FRANCIS STEEN**  
**UNIVERSITY OF CALIFORNIA**

PROFESSOR OF COMMUNICATION STUDIES / DIGITAL HUMANITIES  
UNIVERSITY OF CALIFORNIA (UCLA), UNITED STATES



**PROF. TOSHIHARU TAURA**  
**KOBE UNIVERSITY**

PROFESSOR OF MECHANICAL ENGINEERING  
KOBE UNIVERSITY, JAPAN



**DR. PIA TIKKA**  
**AALTO UNIVERSITY**

RESEARCH FELLOW: SCHOOL OF ART, DESIGN  
ARCHITECTURE AALTO UNIVERSITY, FINLAND



**PROF. MARK TURNER**  
**CASE WESTERN RESERVE UNIVERSITY**

PROFESSOR OF COGNITIVE SCIENCE  
CASE WESTERN RESERVE UNIVERSITY, UNITED STATES



# SEMINARS

APRIL

**APRIL 20 / THURSDAY**

**MARK TURNER**

ON: VOICE, ACTION, GESTURE: THEORY AND TOOLS FOR THE BIG DATA STUDY OF MULTIMODAL COMMUNICATION

WHERE: ROTUNDE @ CARTESIUM \ UNIVERSITY OF BREMEN

WHEN: 14:00 - 16:00

**FRANCIS STEEN**

ON: CASE STUDIES IN MULTIMODAL COMMUNICATION

WHERE: ROTUNDE @ CARTESIUM \ UNIVERSITY OF BREMEN

WHEN: 14:00 - 16:00

MAY

**MAY 15 / MONDAY**

**MEHUL BHATT**

ON: (SPATIAL) COGNITION AND (SPATIAL) DESIGN

WHERE: ROTUNDE @ CARTESIUM \ UNIVERSITY OF BREMEN

WHEN: 14:00 - 16:00

**BIPIN INDURKHYA**

ON: THINKING LIKE A CHILD: THE ROLE OF SURFACE SIMILARITIES IN STIMULATING CREATIVITY,  
AND IMPLICATIONS FOR THE DESIGN OF CREATIVITY SUPPORT SYSTEMS

WHERE: ROTUNDE @ CARTESIUM \ UNIVERSITY OF BREMEN

WHEN: 16:00 - 17:00

## MAY

### MAY 18 - 25 / THURSDAY - THURSDAY

**PIA TIKKA**

ON: THE NARRATING BRAIN: HOW EXPERIMENTAL NEUROSCIENCE CAN HELP US TO UNDERSTAND THE SOCIAL MIND?

WHERE: ROOM 1010 @ SFG \ UNIVERSITY OF BREMEN

WHEN: 16:00 - 17:00

**CLAYTON LEWIS**

ON: NEW REPRESENTATIONS OF INFORMATION FOR PEOPLE WITH DISABILITIES: MULTIDISCIPLINARY PERSPECTIVES

WHERE: ROTUNDE @ CARTESIUM \ UNIVERSITY OF BREMEN

WHEN: 16:00 - 17:00

## JUNE

### JUNE 6 / TUESDAY

**JAMES CUTTING**

ON: STORYTELLING AND POPULAR MOVIES, AND ITS UNDERLYING PSYCHOLOGICAL PRINCIPLES

WHERE: ROTUNDE @ CARTESIUM \ UNIVERSITY OF BREMEN

WHEN: 16:00 - 18:30

**DANIEL LEVIN**

ON: VISUAL ATTENTION AND REPRESENTATION DURING MEANINGFUL EVENTS

WHERE: ROTUNDE @ CARTESIUM \ UNIVERSITY OF BREMEN

WHEN: 16:00 - 18:30

### JUNE 7 / WEDNESDAY

**TOSHIHARU TAURA**

ON: CREATIVE THINKING IN INNOVATION DESIGN

WHERE: ROTUNDE @ CARTESIUM \ UNIVERSITY OF BREMEN

WHEN: 09:00 - 10:00

**JUHYUN LEE**

ON: THE LANGUAGE OF DESIGN: CREATIVITY, COMPLEXITY AND SPATIAL REPRESENTATION IN DESIGN

WHERE: ROTUNDE @ CARTESIUM \ UNIVERSITY OF BREMEN

WHEN: 14:00 - 15:00

# EVENTS

## APRIL

### APRIL 20 / THURSDAY

HWK LECTURE BY: **MARK TURNER**  
ON: **THE ORIGIN OF IDEAS: BLENDING, CREATIVITY, AND THE HUMAN SPARK**  
WHERE: HANSE-WISSENSCHAFTKOLLEG (HWK) DELMENHORST  
WHEN: 19:00

## JUNE

### JUNE 7 - 8 / WEDNESDAY AND THURSDAY

ROUNDTABLE: **THE (CO)DESIGN ROUNDTABLE**

HOSTS AND CO-CHAIRS: **MEHUL BHATT \ ELISABETH ANDRÉ**  
WHERE: ROTUNDE @ CARTESIUM \ UNIVERSITY OF BREMEN  
WHEN: 09:00 - 18:30 (JUNE 7) \ 09:30 - 15:00 (JUNE 8)



JUNE

**JUNE 8 / THURSDAY (EVENING)**

PUBLIC LECTURES AND EXHIBITION:  
MINDS. MOVEMENT. MOVING IMAGES. PERSPECTIVES FROM THE COGNITIVE AND PSYCHOLOGICAL SCIENCES

PUBLIC LECTURE BY: **MEHUL BHATT**  
ON: MINDS AND MEDIA STUDIES: POSSIBILITIES FOR AI, SPATIAL COGNITION, AND DESIGN RESEARCH

PUBLIC LECTURE BY: **JAMES E. CUTTING**  
ON: THE EVOLUTION OF POPULAR MOVIES, AND ITS UNDERLYING PSYCHOLOGICAL PRINCIPLES

PUBLIC LECTURE BY: **DANIEL LEVIN**  
ON: FROM ART TO TRASH: WHAT THE BEST AND WORST OF FILMMAKING CAN TEACH US ABOUT HOW THE BRAIN SEES

WHERE: HAUS DER WISSENSCHAFT (HOUSE OF SCIENCE), BREMEN  
WHEN: 18:00 - 21:00

# EVENTS

## JUNE

### JUNE 10 / SATURDAY

PLENARY TUTORIAL: **COMPUTATIONAL COGNITIVE VISION FOR HUMAN-BEHAVIOUR INTERPRETATION**

PRESENTER: **JAKOB SUCHAN**

WHERE: INTERNATIONAL CONFERENCE ON MULTIMODAL COMMUNICATION: DEVELOPING NEW THEORIES AND METHODS (ICMC 2017), OSNABRÜCK, GERMANY

WHEN: 09:30 ONWARDS

## AUGUST

### AUGUST 19 - 25 / SATURDAY - FRIDAY

TUTORIAL: **DECLARATIVE SPATIAL REASONING THEORY, METHODS AND APPLICATION**

PRESENTER: **MEHUL BHATT / CARL SCHULTZ / PRZMYSLAW WALEGA**

WHERE: 26TH INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE (IJCAI 2017), MELBOURNE, AUSTRALIA.

WORKSHOP: **COGNITION AND ARTIFICIAL INTELLIGENCE FOR HUMAN-CENTRED DESIGN**

CO-CHAIRS: **MEHUL BHATT / ANTONIO LIETO**

WHERE: 26TH INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE (IJCAI 2017), MELBOURNE, AUSTRALIA.

## SEPTEMBER

### SEPTEMBER 4 - 8 / MONDAY - FRIDAY

TUTORIAL: SPATIAL COGNITION IN THE WILD:  
METHODS FOR LARGE-SCALE BEHAVIOURAL RESEARCH IN VISUO-LOCOMOTIVE PERCEPTION

PRESENTER: **MEHUL BHATT / CARL SCHULTZ / JAKOB SUCHAN / VASILIKI KONDYLI**

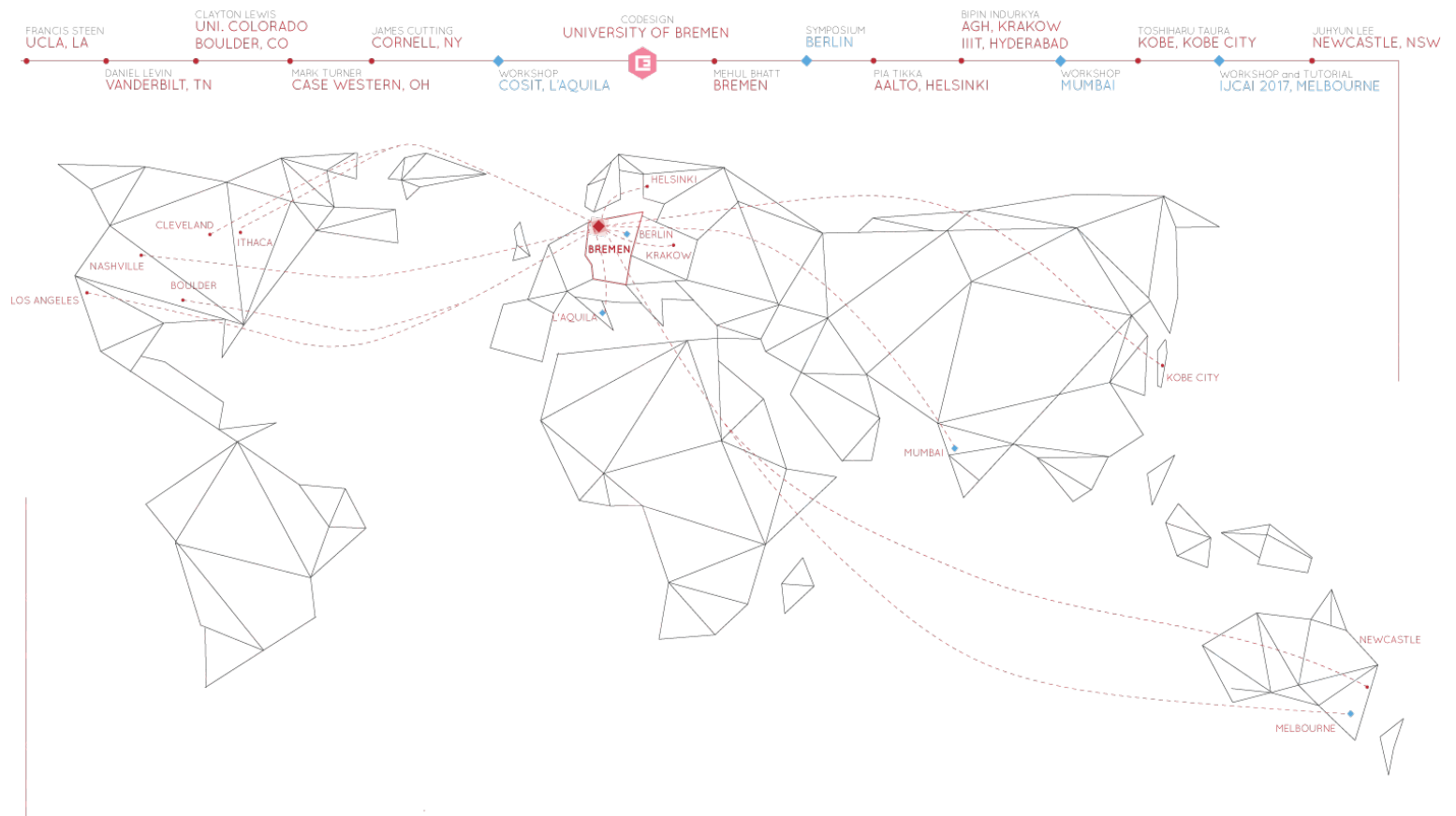
WHERE: 13TH INTERNATIONAL CONFERENCE  
ON SPATIAL INFORMATION THEORY (COSIT 2017), L'AQUILA, ITALY

### SEPTEMBER 25 - 29 / MONDAY - FRIDAY

WORKSHOP: MULTIMODALITY IN EMBODIED EXPERIENCE DESIGN

CO-CHAIRS: **MEHUL BHATT / CLAYTON LEWIS**

WHERE: THE 16TH IFIP TC.13 INTERNATIONAL CONFERENCE  
ON HUMAN-COMPUTER INTERACTION (INTERACT 2017), MUMBAI, INDIA



## CODESIGN \ STEERING AND ORGANISATION

Human-Centred Cognitive Assistance Lab. [hcc.uni-bremen.de](http://hcc.uni-bremen.de)  
 The DesignSpace Group. [www.design-space.org](http://www.design-space.org)  
 University of Bremen, Germany. [www.uni-bremen.de](http://www.uni-bremen.de)

### CODESIGN 2017 CHAIR

Prof. Dr. Mehul Bhatt  
 University of Bremen, and  
 German Research Centre for Artificial Intelligence  
 (DFKI Bremen)  
[www.mehulbhatt.org](http://www.mehulbhatt.org)

### Internationalisation Strategy

Dr. Annette Lang  
 Director, International Office, University of Bremen

### HWK Scientific Associate

Dr. Dorothe Poggel  
 Hanse-Wissenschaftskolleg (HWK) / Institute for Advanced Study  
 Delmenhorst

### ORGANISATIONAL SUPPORT

#### Research

Jakob Suchan  
[jakob.suchan@cognitive-vision.org](mailto:jakob.suchan@cognitive-vision.org)

Vasiliki Kondyli  
[vasiliki@design-space.org](mailto:vasiliki@design-space.org)

#### Student Assistants

Hubert Kloskowski  
 Md. Mamunuzzaman  
 Omar Moussa

#### Public Exhibition Support

Embodied Cognitive Experiences  
 Student Project / Digital Media Bremen