QUARTZ

Project ID: 721321
Funded under: H2020-EU.1.3.1.

Quantum Information Access and Retrieval Theory

From 2017-01-01 to 2020-12-31, ongoing project

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUR 3 461 495,04</td>
<td>MSCA-ITN-2016 - Innovative Training Networks</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EU contribution:</th>
<th>Funding scheme:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUR 3 461 495,04</td>
<td>MSCA-ITN-ETN - European Training Networks</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coordinated in:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Italy</td>
</tr>
</tbody>
</table>

Objective

Quantum Information Access and Retrieval Theory

We aim to establish an European Training Network (ETN) on QUantum information Access and Retrieval Theory (QUARTZ). Towards a new approach to Information Access and Retrieval (IAR) addressing the challenges of the dynamic and multimodal nature of the data and user interaction context, QUARTZ aims to educate its Early Stage Researchers (ESRs) to adopt a novel theoretically and empirically motivated approach to IAR based on the quantum mechanical framework that gives up the notions of unimodal features and classical ranking models disconnected from context. Each ESR will be aware that the current state of the art of IAR is not sufficient to address the challenges of a dynamic, adaptive and context-aware user-machine interaction and to make a major breakthrough in the overall effectiveness of retrieval systems, and that a genuine theoretical breakthrough is on the contrary necessary. We believe that this breakthrough can be provided by quantum theory which can integrate abstract vector spaces, probability spaces and logic in a single theoretical framework which extend and generalize the classical vector, probability and logic spaces utilised in IAR. QUARTZ will consist of training activities and ESR research projects which investigate theoretical issues and evaluate methods and prototypes for adaptive IAR systems managing large data collections and meeting the end user's information needs in a dynamic context.

Related information

Report Summaries

Periodic Reporting for period 1 - QUARTZ (Quantum Information Access and Retrieval Theory)
Coordinator

UNIVERSITA DEGLI STUDI DI PADOVA
VIA 8 FEBBRAIO 2
35122 PADOVA
Italy
EU contribution: EUR 774
183.96

Activity type: Higher or Secondary Education Establishments
Contact the organisation

Participants

THE OPEN UNIVERSITY
WALTON HALL
MK7 6AA MILTON KEYNES
United Kingdom
EU contribution: EUR 546
575.76

Activity type: Higher or Secondary Education Establishments
Contact the organisation

UNIVERSITY OF BEDFORDSHIRE
UNIVERSITY SQUARE
LU1 3JU LUTON
United Kingdom
EU contribution: EUR 546
575.76

Activity type: Higher or Secondary Education Establishments
Contact the organisation

VRIJE UNIVERSITEIT BRUSSEL
PLEINLAAN 2
1050 BRUSSEL
Belgium
EU contribution: EUR 501 120

Activity type: Higher or Secondary Education Establishments
Contact the organisation

KOBENHAVNS UNIVERSITET
NORREGADE 10
1165 KOBENHAVN
Denmark
EU contribution: EUR 580
163.76

Activity type: Higher or Secondary Education Establishments
Contact the organisation
BRANDENBURGISCHE TECHNISCHE UNIVERSITAT COTTBUS-SENFTENBERG
PLATZ DER DEUTSCHEN EINHEIT 1
03046 COTTBUS
Germany
EU contribution: EUR 249,216,48

Activity type: Higher or Secondary Education Establishments
Contact the organisation

LINNEUNIVERSITETET
LINNAEUS UNIVERSITY
35195 VAXJO
Sweden
EU contribution: EUR 263,659,32

Activity type: Higher or Secondary Education Establishments
Contact the organisation

Partner organisations

WEBSAYS SL
Calle Napoles, Planta 7, Puerta 4 294
08025 BARCELONA
Spain
EU contribution: EUR 294

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

QUEENSLAND UNIVERSITY OF TECHNOLOGY - QLD
QUT
GEORGE STREET 2
4001 BRISBANE
Australia

Activity type: Higher or Secondary Education Establishments
Contact the organisation

Tianjin University
Weijin Road 92
300072 Tianjin
China

Activity type: Higher or Secondary Education Establishments
Contact the organisation
GREATER GLASGOW HEALTH BOARD

GREAT WESTERN ROAD 1055 J B RUSSELL
G12 0XH GLASGOW
United Kingdom

See on map

Activity type: Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
Contact the organisation

STIFTUNG PREUSSISCHER KULTURBESITZ

VON DER HEYDT STRASSE 16-18
10785 BERLIN
Germany

See on map

Activity type: Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
Contact the organisation

SEMION LTD

London
United Kingdom

See on map

Activity type: Other
Contact the organisation

Last updated on 2019-04-02
Retrieved on 2019-08-31

Permalink: https://cordis.europa.eu/project/rcn/205510_en.html
© European Union, 2019