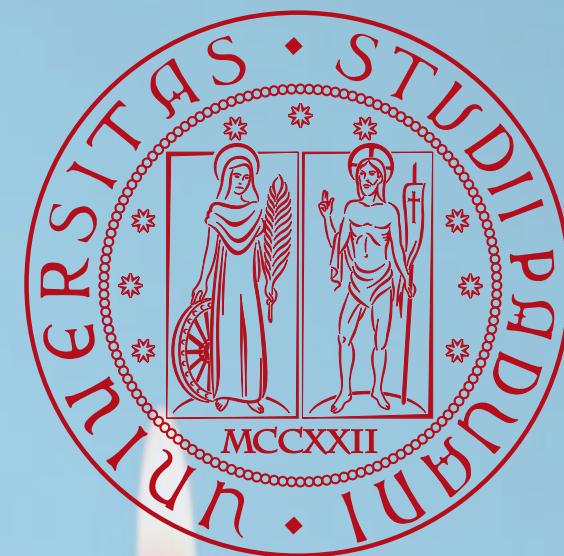




The CLEF Association

Conference and Labs of the Evaluation Forum

<http://www.clef-initiative.eu/association>



CLEF 20th Anniversary

Nicola Ferro

 @frrncl

University of Padua, Italy

CLIR: The Grand Challenge

AAAI 1997 Spring Symposium: Fully multilingual and multimodal information retrieval systems

[Doug Oard and David Hull]

- capable of processing a query in any medium and any language
- finding relevant information from a multilingual multimedia collection containing documents in any language and form
- and presenting it in the style most likely to be useful to the user

Carol Peters: When Everything Began



- 1997 – First CLIR system evaluation campaigns in US and Japan: TREC and NTCIR
 - CLEF actually began life in 1997 as a track for Cross Language Information Retrieval (CLIR) within TREC. Mainly, English centered tasks (EN -> X, X -> EN).
- 2000-2009 – CLIR evaluation in Europe: CLEF (extension of CLIR track at TREC)
 - Fully multilingual, multimodal information retrieval systems capable of processing a query in any medium and any language finding relevant information from a multilingual multimedia collection containing documents in any language and form, and presenting it in the style most likely to be useful to the user

- Stimulation of research activity in new, previously unexplored areas
- Study and implementation of evaluation methodologies for diverse types of cross-language IR systems
- Creation of a large set of empirical data about multilingual information access from the user perspective
- Quantitative and qualitative evidence with respect to best practice in cross-language system development
- Creation of reusable test collections for system benchmarking
- Building of a strong, multidisciplinary research community

- Stimulation of research activity in new, previously unexplored areas
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- Creation of a multilingual information access system
- Quantitative and qualitative assessment of best practice in cross-language system development
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**Multilingual IR
for European
languages**

Where To Go Next?



The direction depends on the **community**

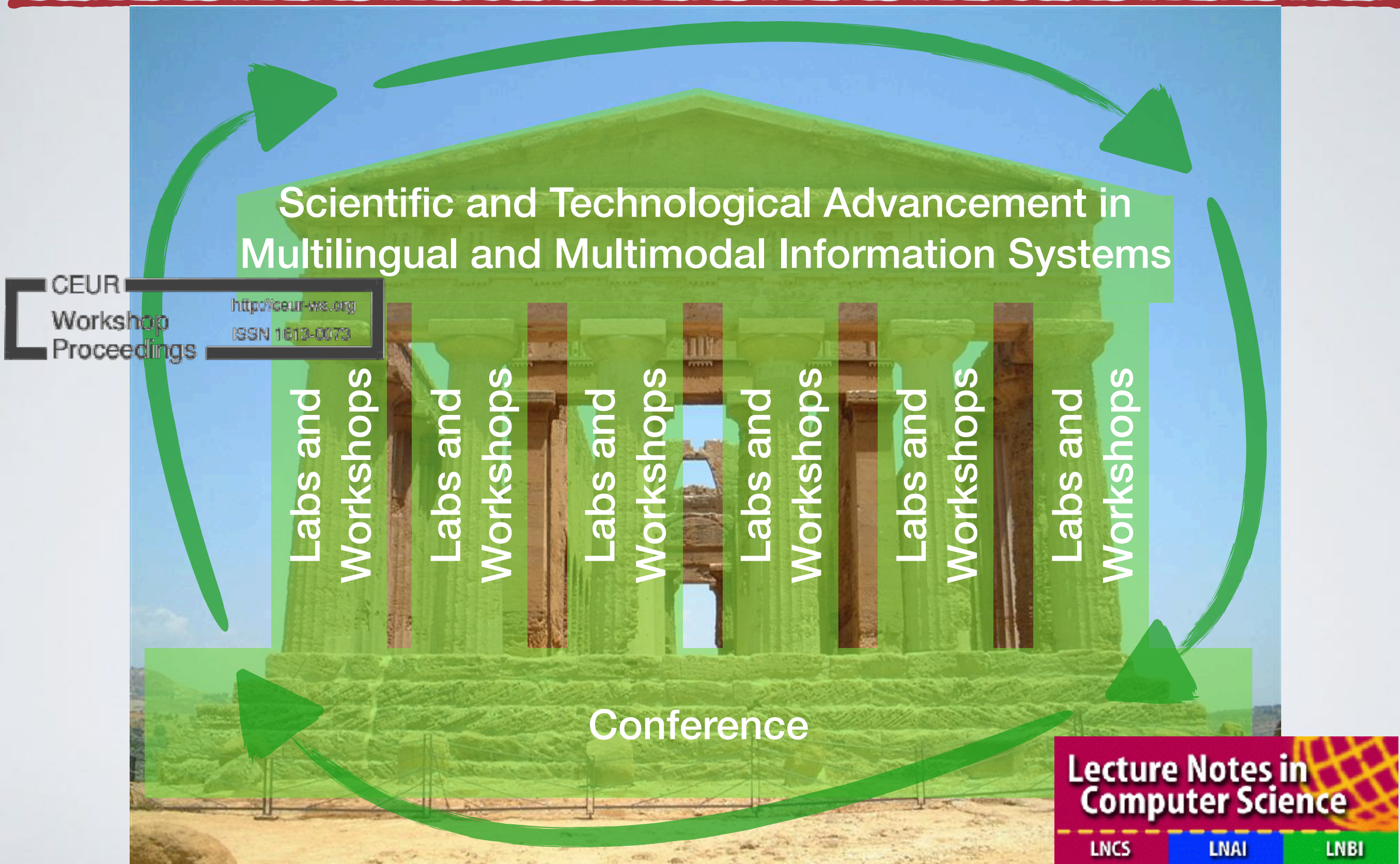


From Classic CLEF to the CLEF Initiative

The **CLEF Initiative** is a self-organized body whose main mission is to promote research, innovation, and development of information access systems with an emphasis on **multilingual** and **multimodal information** with **various levels of structure**.

- multilingual and multimodal system testing, tuning and evaluation;
- investigation of the use of unstructured, semi-structured, highly-structured, and semantically enriched data in information access;
- creation of reusable test collections for benchmarking;
- exploration of new evaluation methodologies and innovative ways of using experimental data;
- discussion of results, comparison of approaches, exchange of ideas, and transfer of knowledge.

Approach



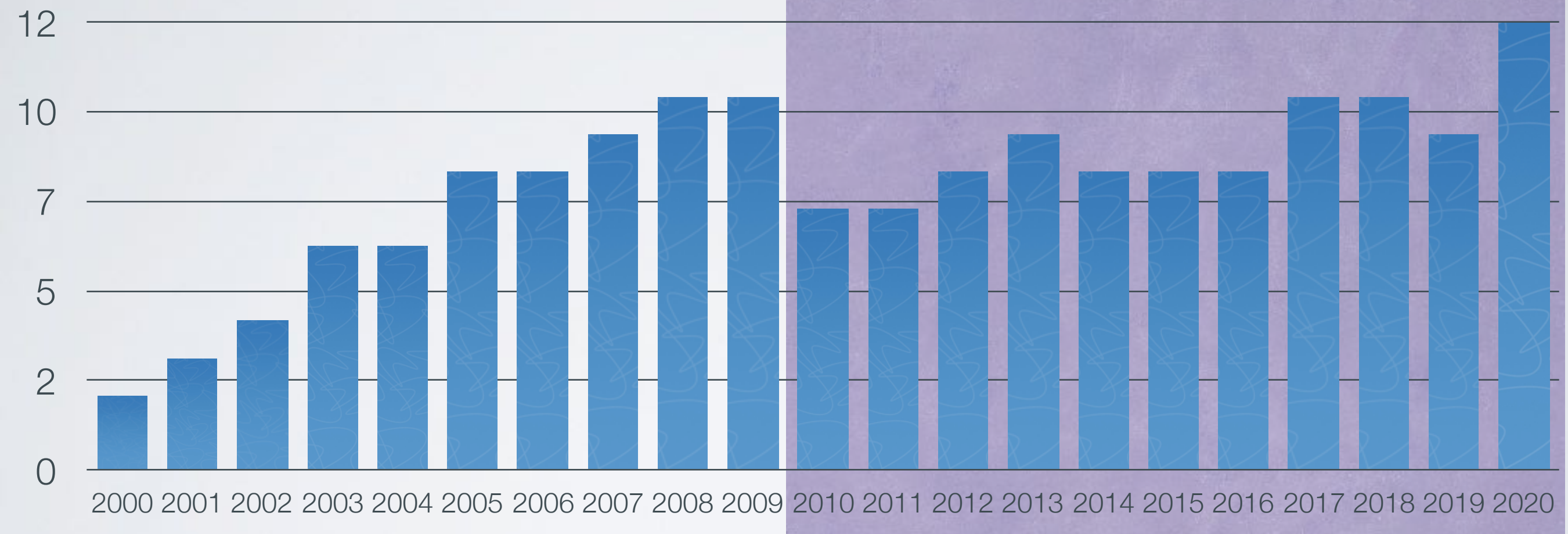
Participation: Attendees

100% Voluntary Effort Based

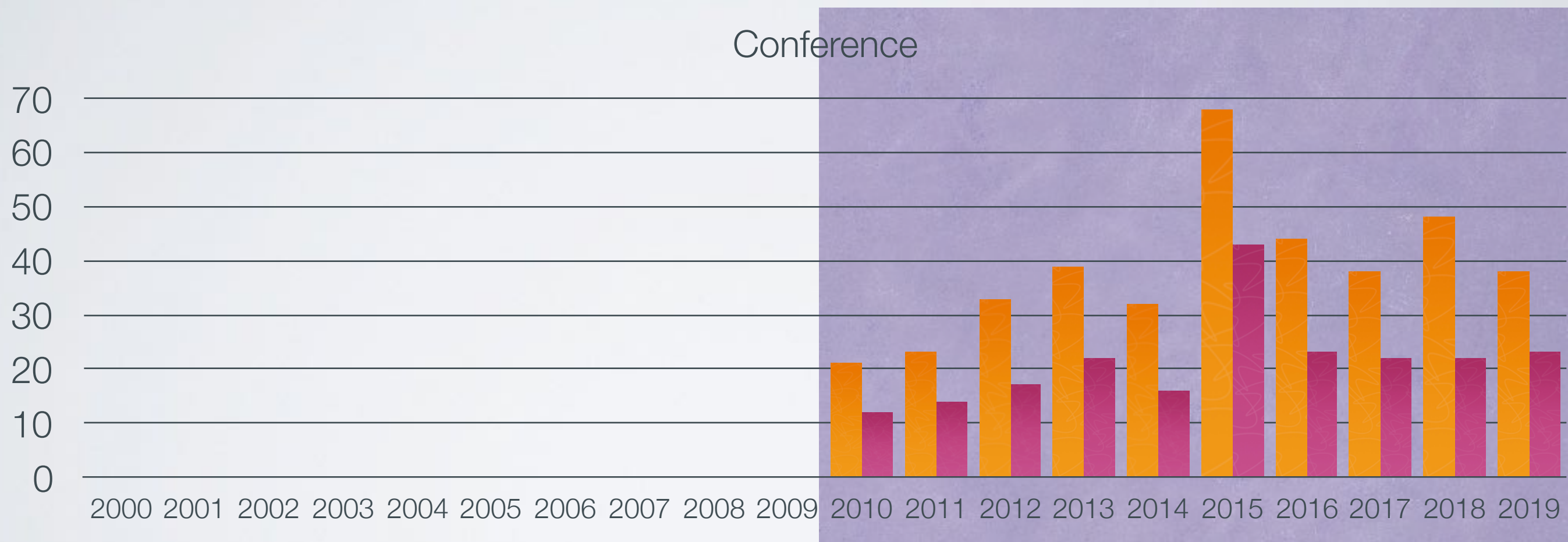


Mainly voluntary effort + project funding

Tracks/Labs



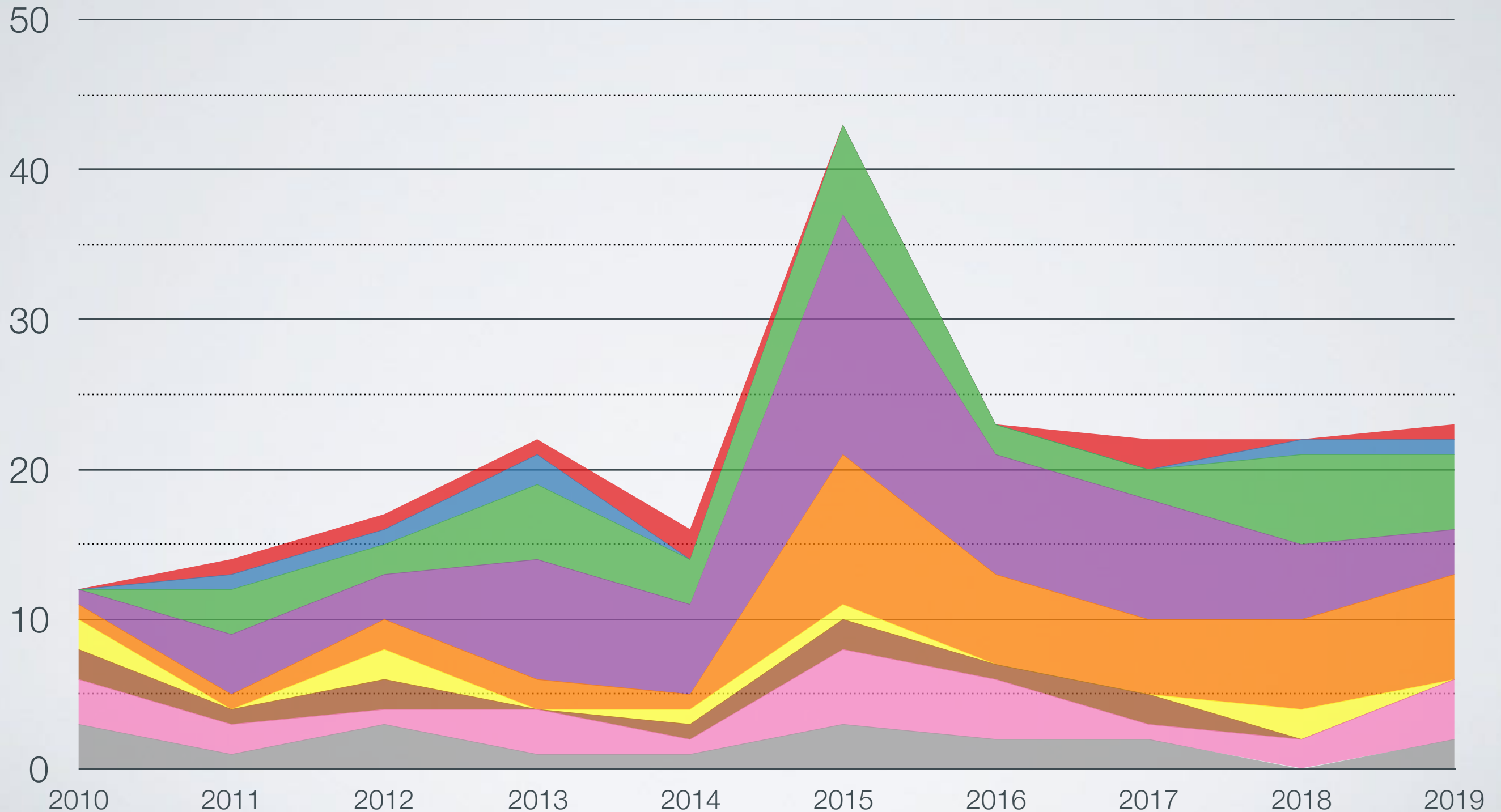
Submitted Accepted



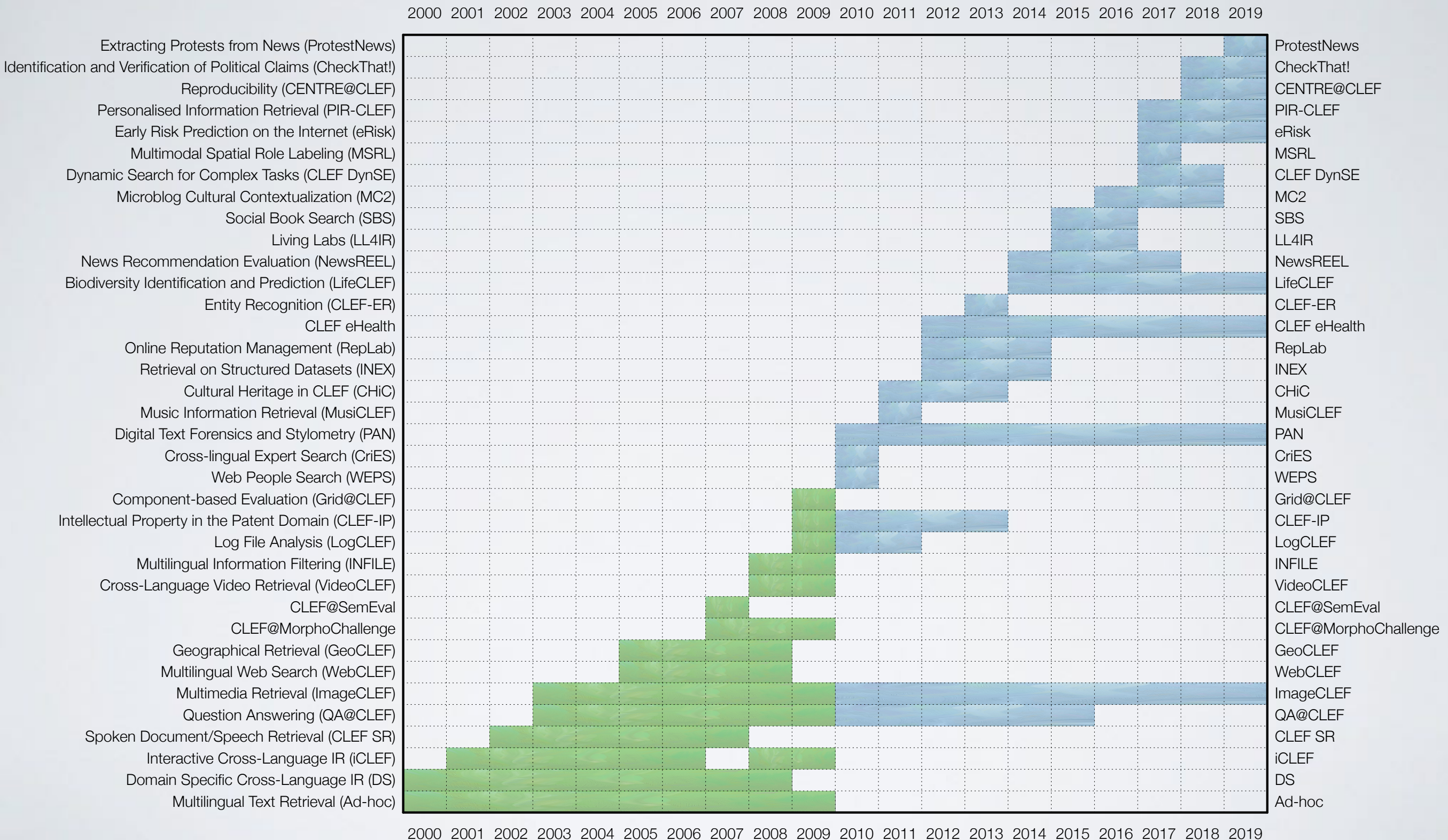
Conference Topics



- Experimental Collections
- Evaluation Infrastructures
- Multimodality
- Evaluation Methods
- Language Processing and Resources
- Information Visualization for Evaluation
- Evaluation Measures
- Tools, Systems, Applications
- Longitudinal Studies

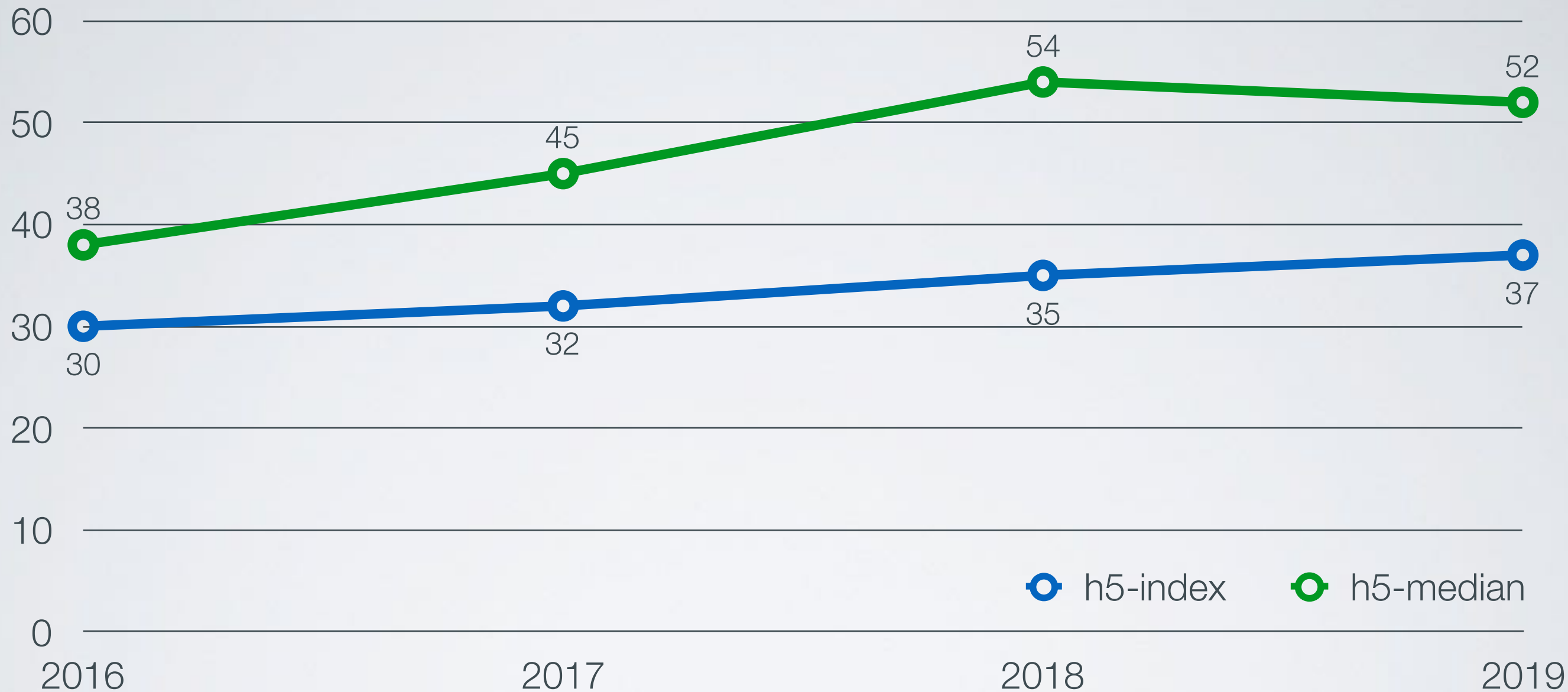


Labs over the Years



Publication “Universe”

Google Scholar Metrics for “Cross-Language Evaluation Forum”



Google Scholar for “*CLEF evaluation*”

53,400 hits

Publication “Universe”



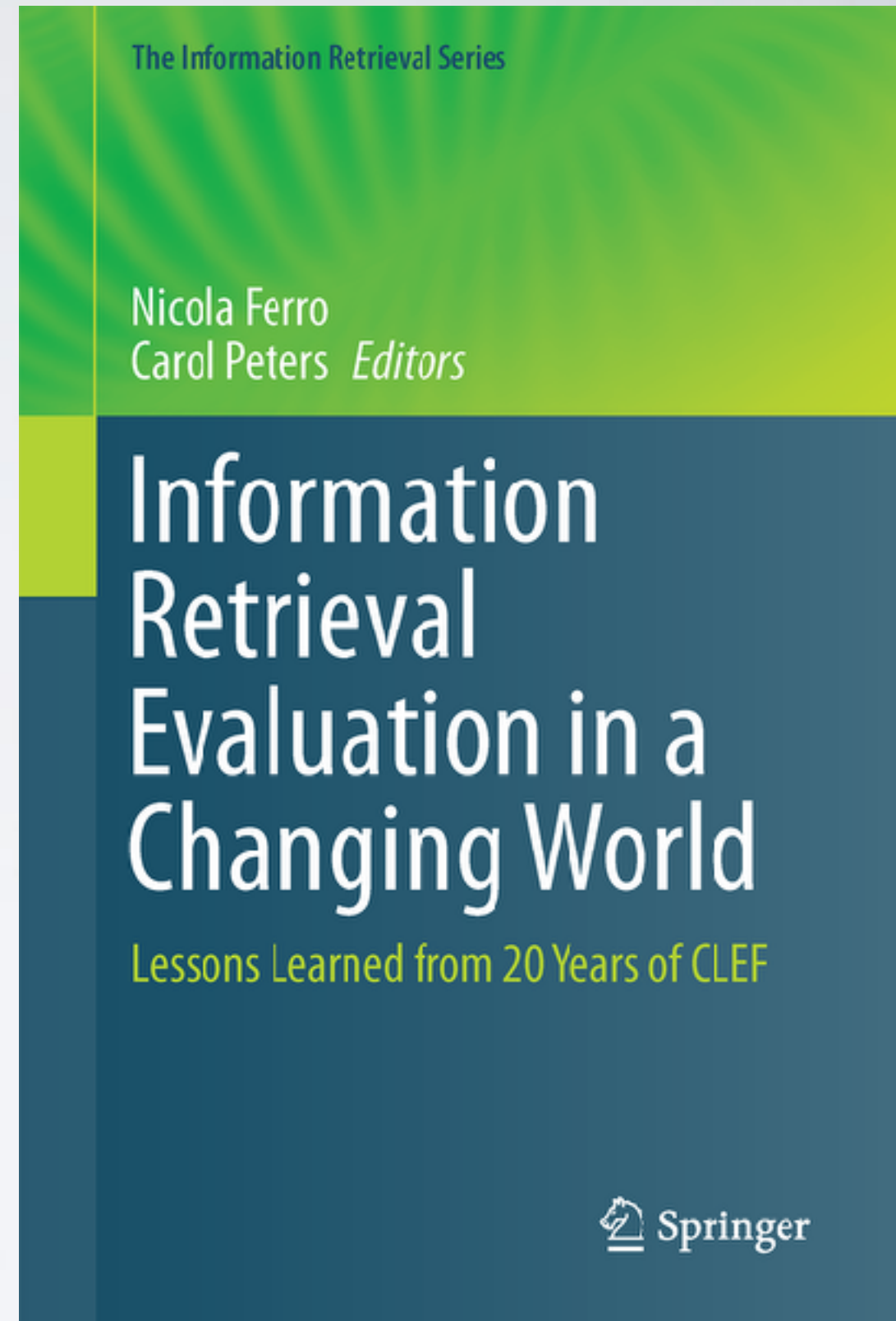
Google Scholar

Top publications

Categories > Engineering & Computer Science > Databases & Information Systems

	Publication	h5-index	h5-median
1.	IEEE Transactions on Knowledge and Data Engineering	77	112
2.	International Conference on Very Large Databases	74	103
3.	International World Wide Web Conferences (WWW)	70	118
4.	ACM SIGMOD International Conference on Management of Data	67	105
5.	ACM SIGIR Conference on Research and Development in Information Retrieval	55	81
6.	ACM International Conference on Web Search and Data Mining	51	85
7.	International Conference on Data Engineering	51	71
8.	ACM International Conference on Information and Knowledge Management	48	78
9.	International Conference on Web and Social Media (ICWSM)	45	82
10.	ACM Conference on Recommender Systems	45	65
11.	Information Systems	41	60
12.	Information Processing & Management	39	58
13.	Knowledge and Information Systems	38	59
14.	ACM Transactions on Intelligent Systems and Technology (TIST)	38	55
15.	International AAAI Conference on Web and Social Media	37	60
16.	International Conference on the Semantic Web	37	59
17.	Workshop of Cross-Language Evaluation Forum	37	52
18.	IEEE International Conference on Big Data	33	47
19.	The VLDB Journal—The International Journal on Very Large Data Bases	32	54
20.	Semantic Web	32	51

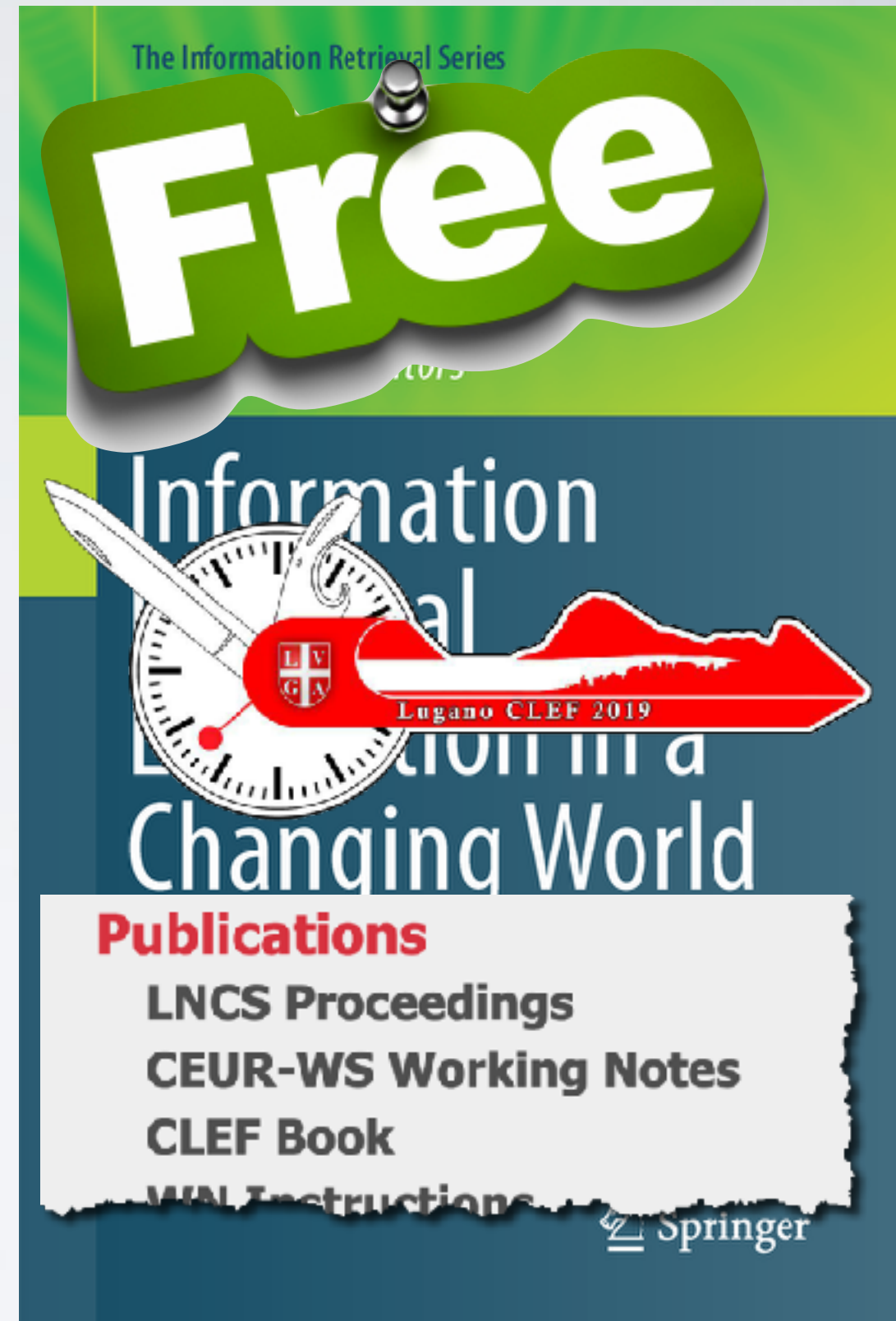
- Foreword by Donna Harman
- Part I – Experimental Evaluation and CLEF
- Part II – Evaluation Infrastructures
- Part III – Multilingual and Multimedia Information Retrieval
- Part IV – Retrieval in New Domains
- Part V – Beyond Retrieval
- Part VI – Impact and Future Challenges



20th Anniversary Book

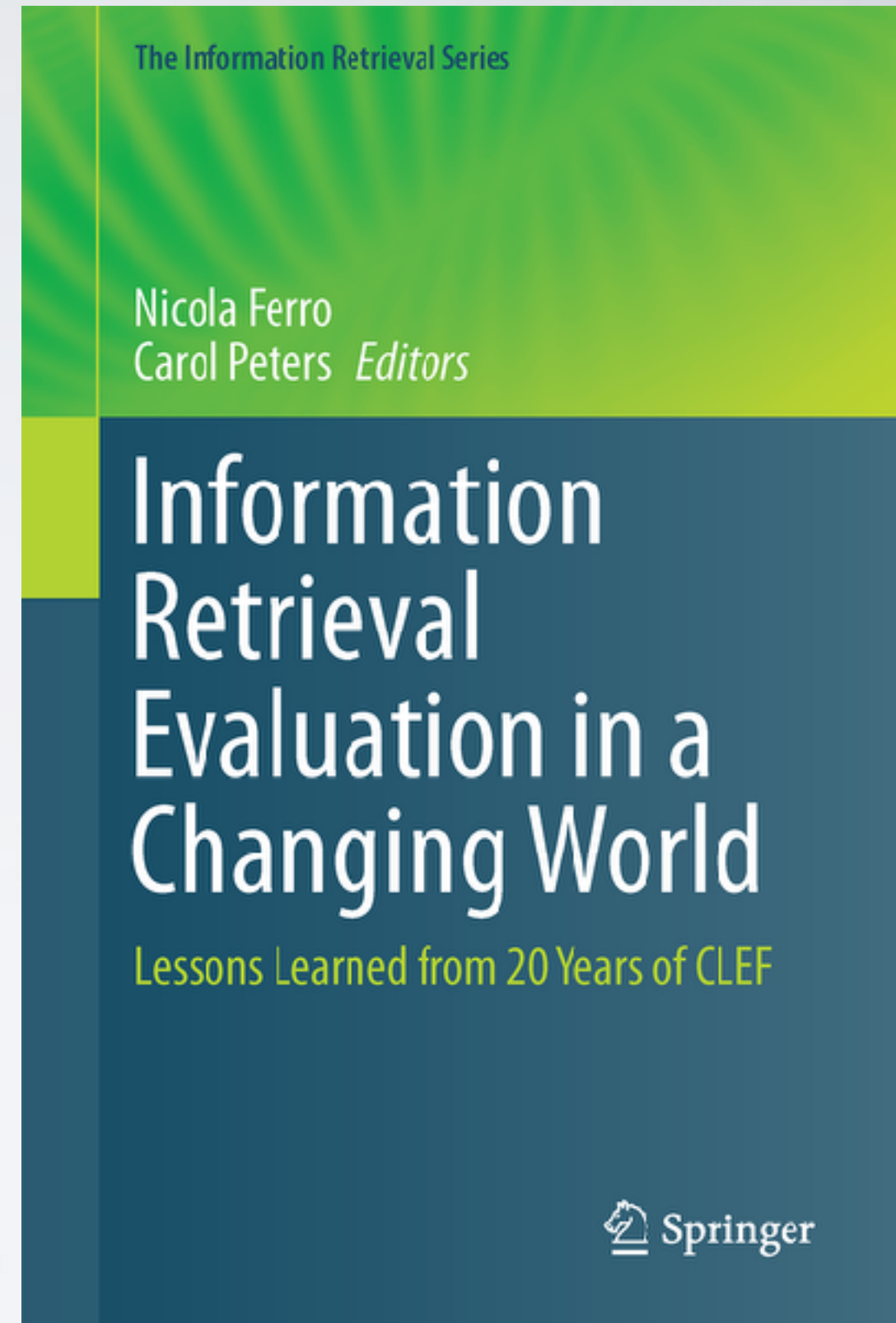


- Foreword by Donna Harman
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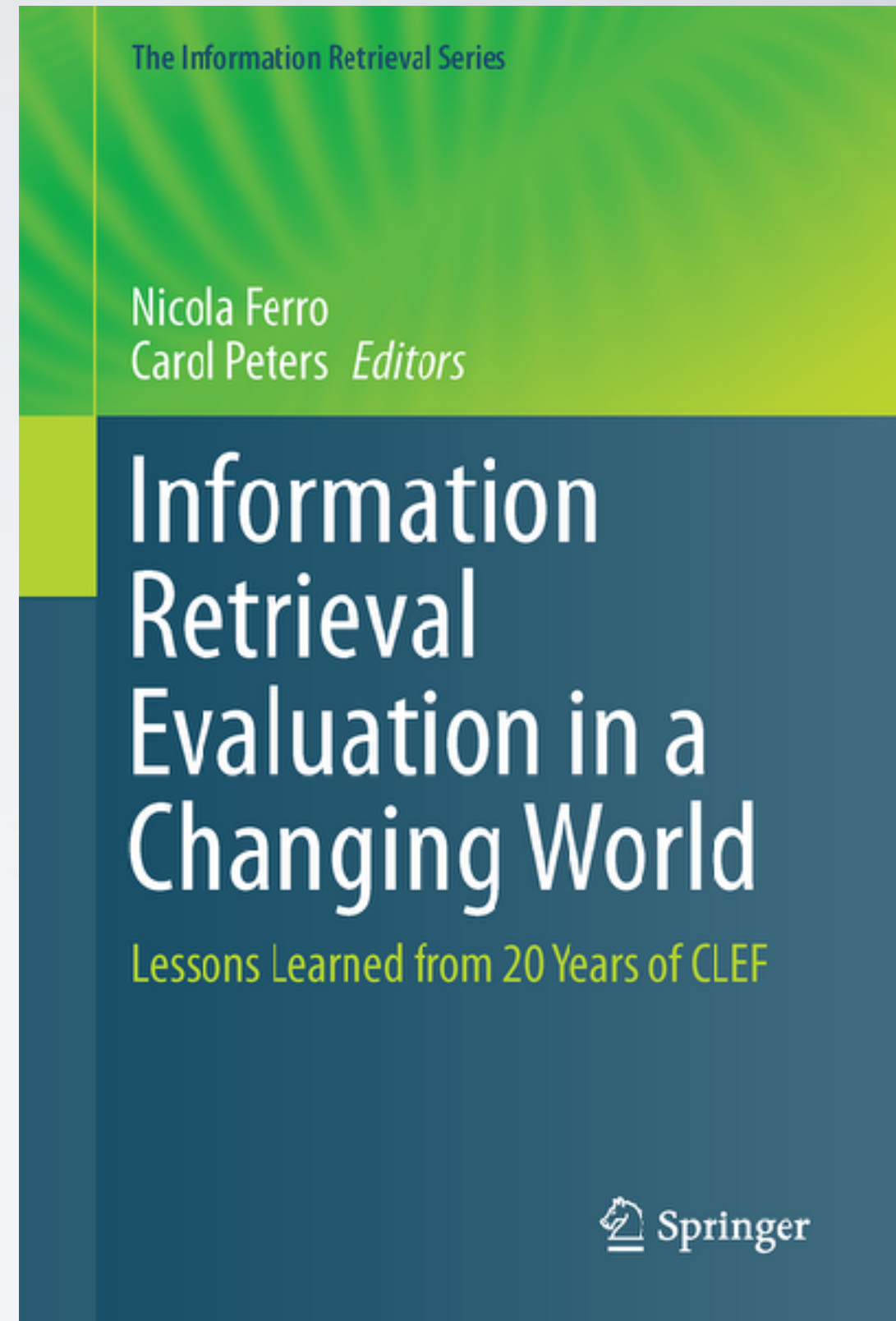
● Part I – Experimental Evaluation and CLEF

- From Multilingual to Multimodal:
The Evolution of CLEF over Two Decades
 - N. Ferro and C. Peters
- The Evolution of Cranfield
 - E. M. Voorhees
- How to Run an Evaluation Task
 - T. Sakai



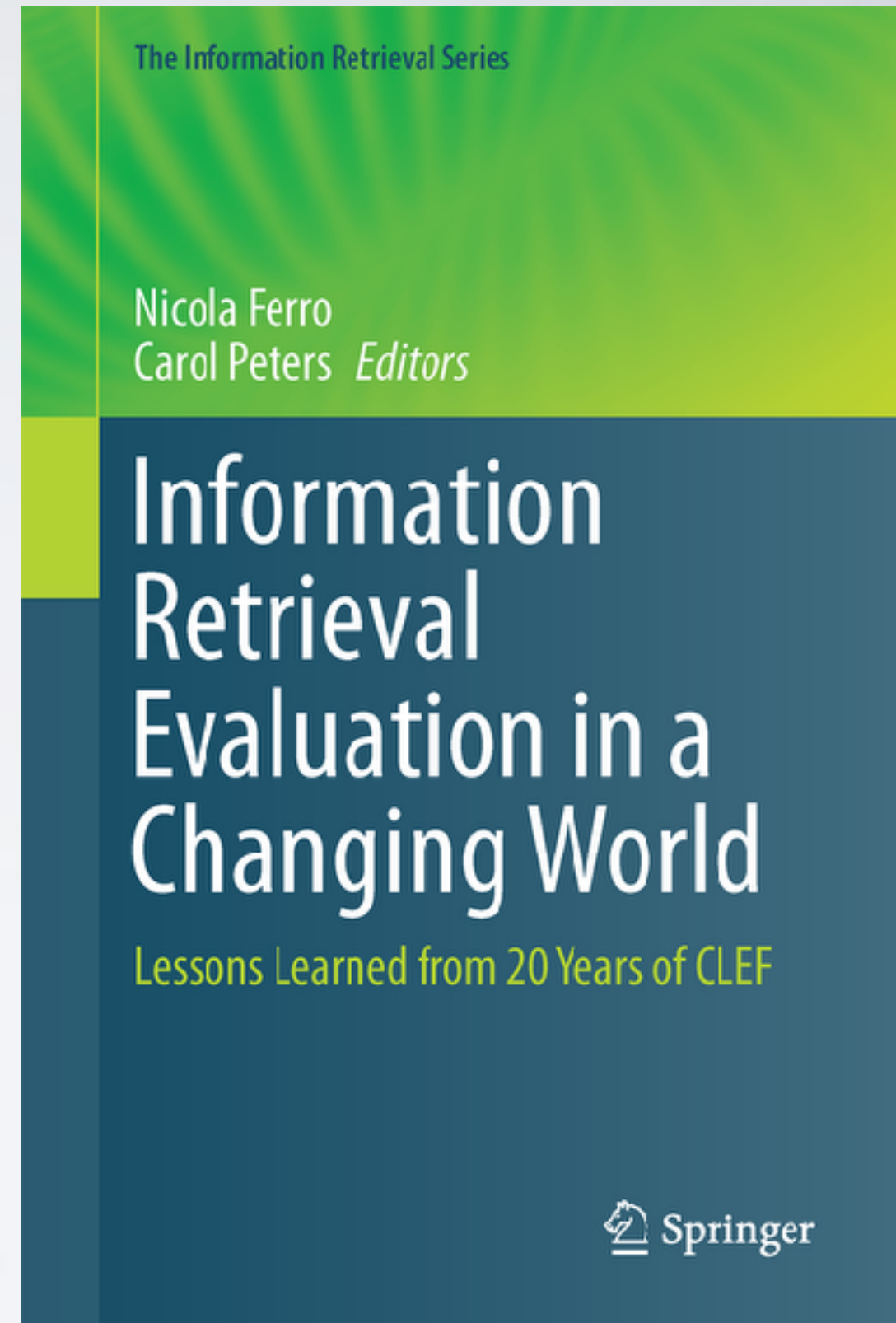
Part II – Evaluation Infrastructures

- An Innovative Approach to Data Management and Curation of Experimental Data Generated through IR Test Collections
 - M. Agosti et al.
- TIRA Integrated Research Architecture
 - M. Potthast et al.
- EaaS: Evaluation-as-a-Service and Experiences from the VISCERAL Project
 - H. Müller and A. Hanbury



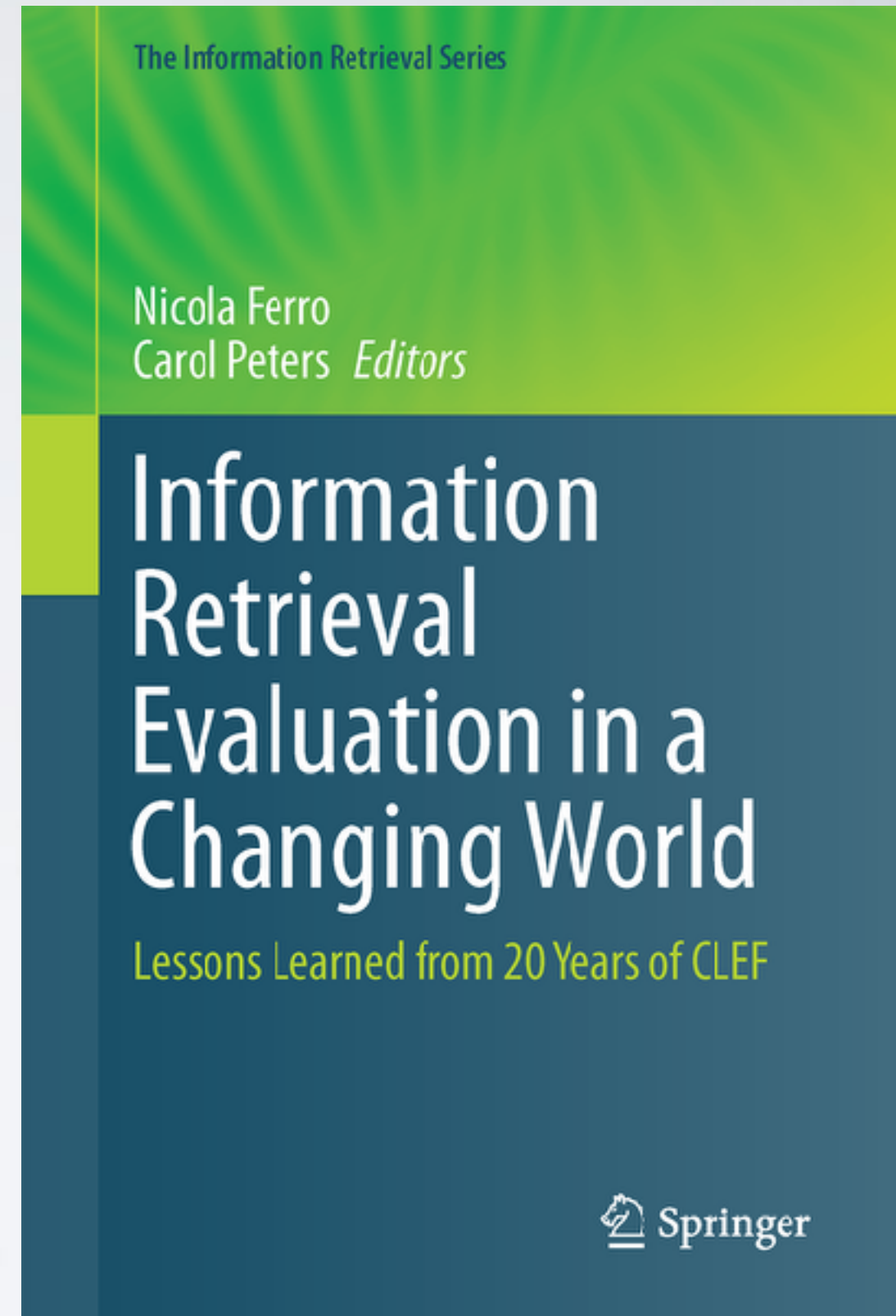
● Part III – Multilingual and Multimedia Information Retrieval

- Lessons Learnt from Experiments on the Ad-Hoc Multilingual Test Collections at CLEF
 - J. Savoy and M. Braschler
- The Challenges of Language Variation in Information Access
 - J. Karlgren et al.
- Multi-lingual Retrieval of Pictures in ImageCLEF
 - P. Clough and T. Tsikrika
- Experiences From the ImageCLEF Medical Retrieval and Annotation Tasks
 - H. Müller et al.
- Automatic Image Annotation at ImageCLEF
 - J. Wang et al.
- Image Retrieval Evaluation in Specific Domains
 - L. Piras et al.
- About Sound and Vision: CLEF beyond Text Retrieval Tasks
 - G. J. F. Jones



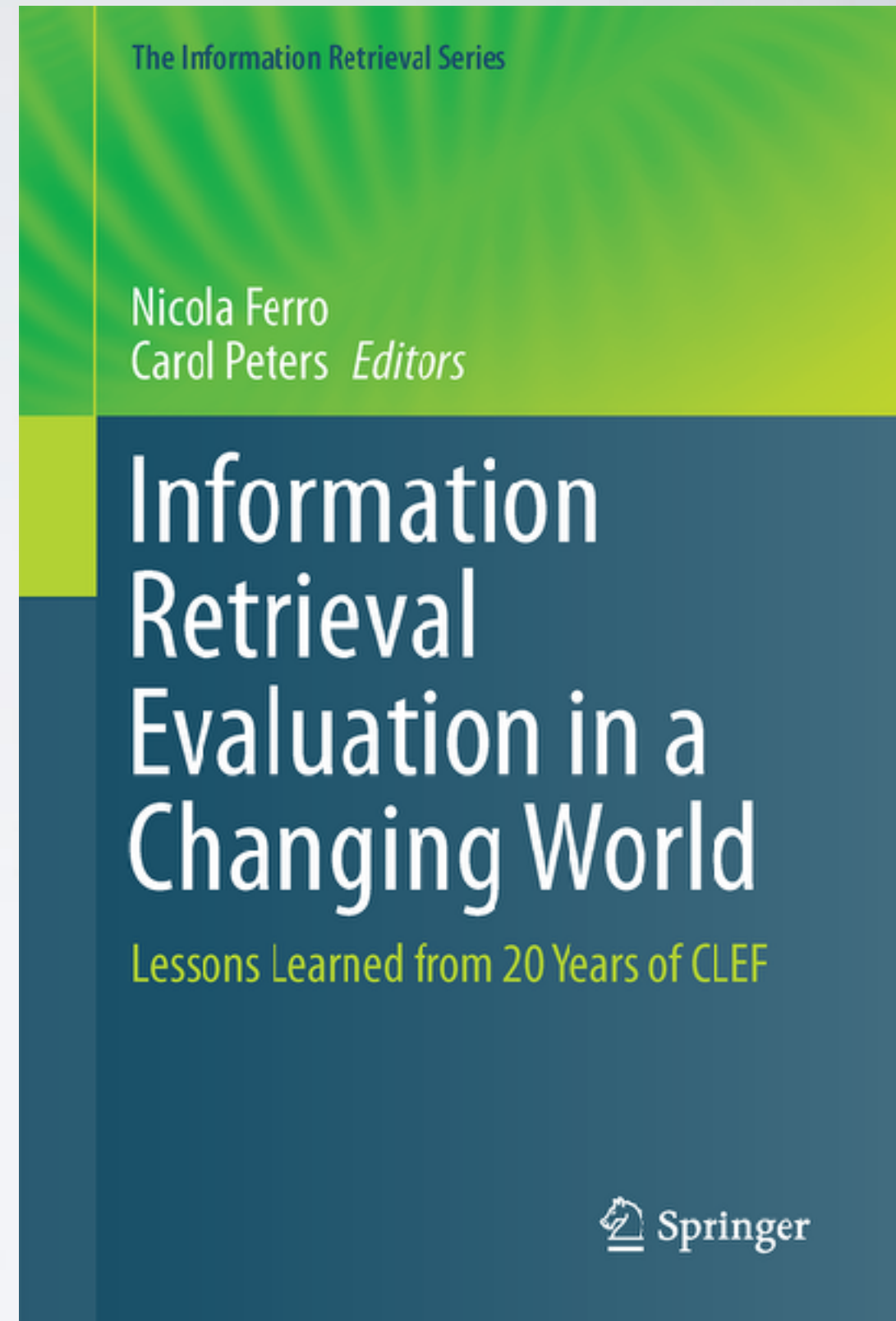
● Part IV – Retrieval in New Domains

- The Scholarly Impact and Strategic Intent of CLEF eHealth Labs from 2012-2017
 - H. Suominen et al.
- Multilingual Patent Text Retrieval Evaluation: CLEF-IP
 - F. Piroi and A. Hanbury
- Biodiversity Information Retrieval through Large Scale Content-Based Identification: A Long-Term Evaluation
 - A. Joly et al.
- From XML Retrieval to Semantic Search and Beyond
 - J. Kamps et al.



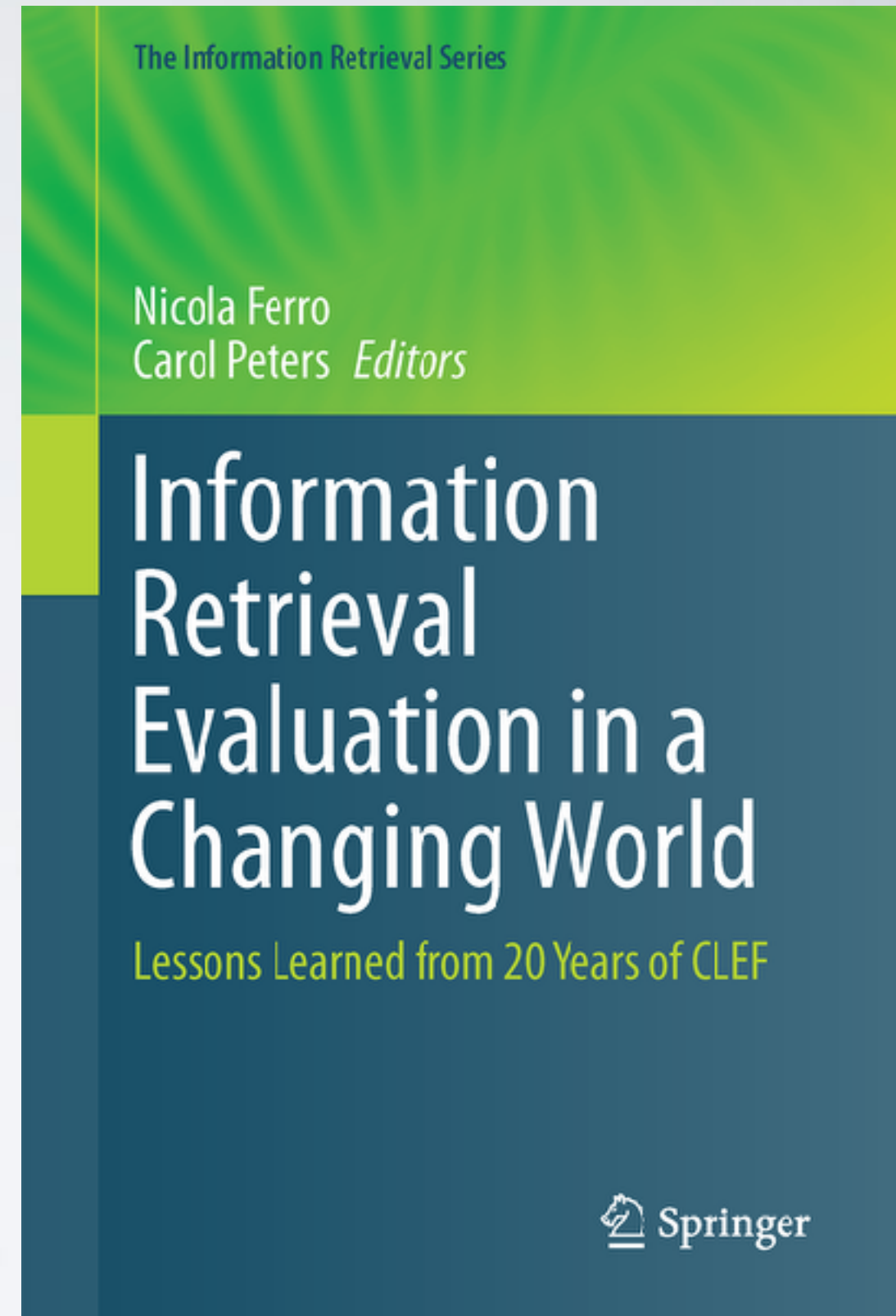
Part V – Beyond Retrieval

- Results and Lessons of the Question Answering Track at CLEF
 - A. Peñas et al.
- Evolution of the PAN Lab on Digital Text Forensics
 - P. Rosso et al.
- RepLab: an Evaluation Campaign for Online Monitoring Systems
 - J. Carrillo-de-Albornoz et al.
- Continuous Evaluation of Large-scale Information Access Systems: A Case for Living Labs
 - F. Hopfgartner et al.



● Part VI – Impact and Future Challenges

- The Scholarly Impact of CLEF 2010-2017
 - B. Larsen
- Reproducibility and Validity in CLEF
 - N. Fuhr
- Visual Analytics and IR Experimental Evaluation
 - N. Ferro and G. Santucci
- Adopting Systematic Evaluation Benchmarks in Operational Settings
 - J. Karlgren



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- **Nicola Ferro**, University of Padua, Italy

Deputy Steering Committee Chair for the Conference

- **Paolo Rosso**, Universitat Politècnica de València, Spain

Deputy Steering Committee Chair for the Labs

- **Martin Braschler**, Zurich University of Applied Sciences, Switzerland

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- **Norbert Fuhr**, University of Duisburg-Essen, Germany
- **Lorraine Goeuriot**, Université Grenoble Alpes, France
- **Julio Gonzalo**, National Distance Education University (UNED), Spain
- **Donna Harman**, National Institute for Standards and Technology (NIST), USA
- **Djoerd Hiemstra**, University of Twente, The Netherlands
- **Evangelos Kanoulas**, University of Amsterdam, The Netherlands

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- **Mihai Lupu**, Vienna University of Technology, Austria

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- **Jacques Savoy**, University of Neuchâtel, Switzerland

- **Laure Soulier**, Pierre and Marie Curie University (Paris 6), France

- **Christa Womser-Hacker**, University of Hildesheim, Germany

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- **Jaana Kekäläinen**, University of Tampere, Finland

- **Séamus Lawless**, Trinity College Dublin, Ireland

- **Carol Peters**, ISTI, National Council of Research (CNR), Italy - CLEF SC Chair 2000-2009

- **Emanuele Pianta**, Centre for the Evaluation of Language and Communication Technologies (CELCT), Italy

- **Alan Smeaton**, Dublin City University, Ireland

Plan for this Session



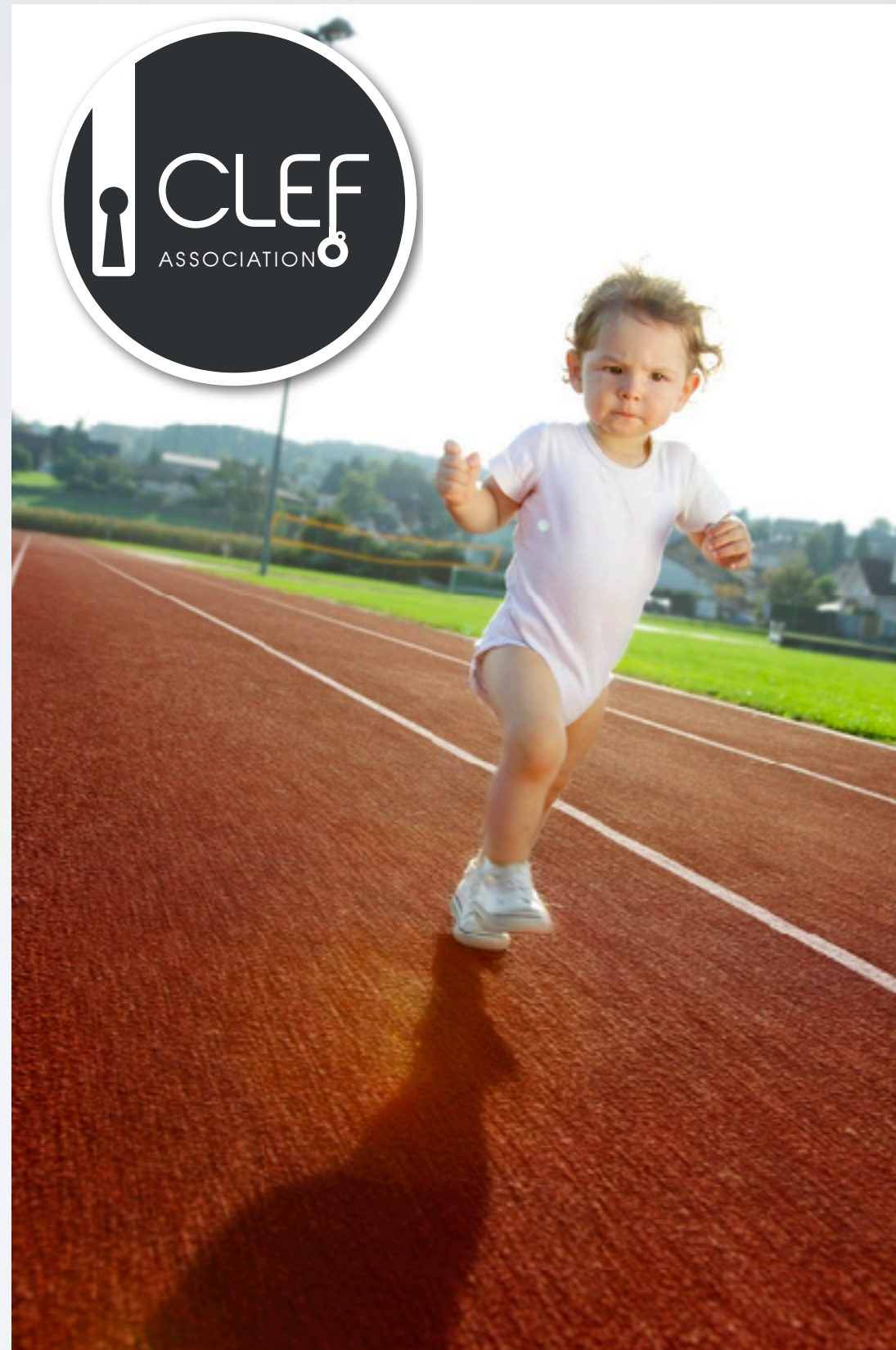
- The Founding of CLEF
Martin Braschler, Zurich University of Applied Sciences, Switzerland.
- The Importance of Shared Evaluations
Donna Harman, National Institute of Standards and Technology (NIST), USA
- The Evolution of Shared Task Evaluation Campaigns
Doug Oard, University of Maryland, USA
- CLEF from the Outside
Bruce Croft, University of Massachusetts, Amherst, USA
- Me, myself and ImageCLEF
Alba García Seco de Herrera, University of Essex, UK

Summing Up





Summing Up



Summing Up

