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November 2019

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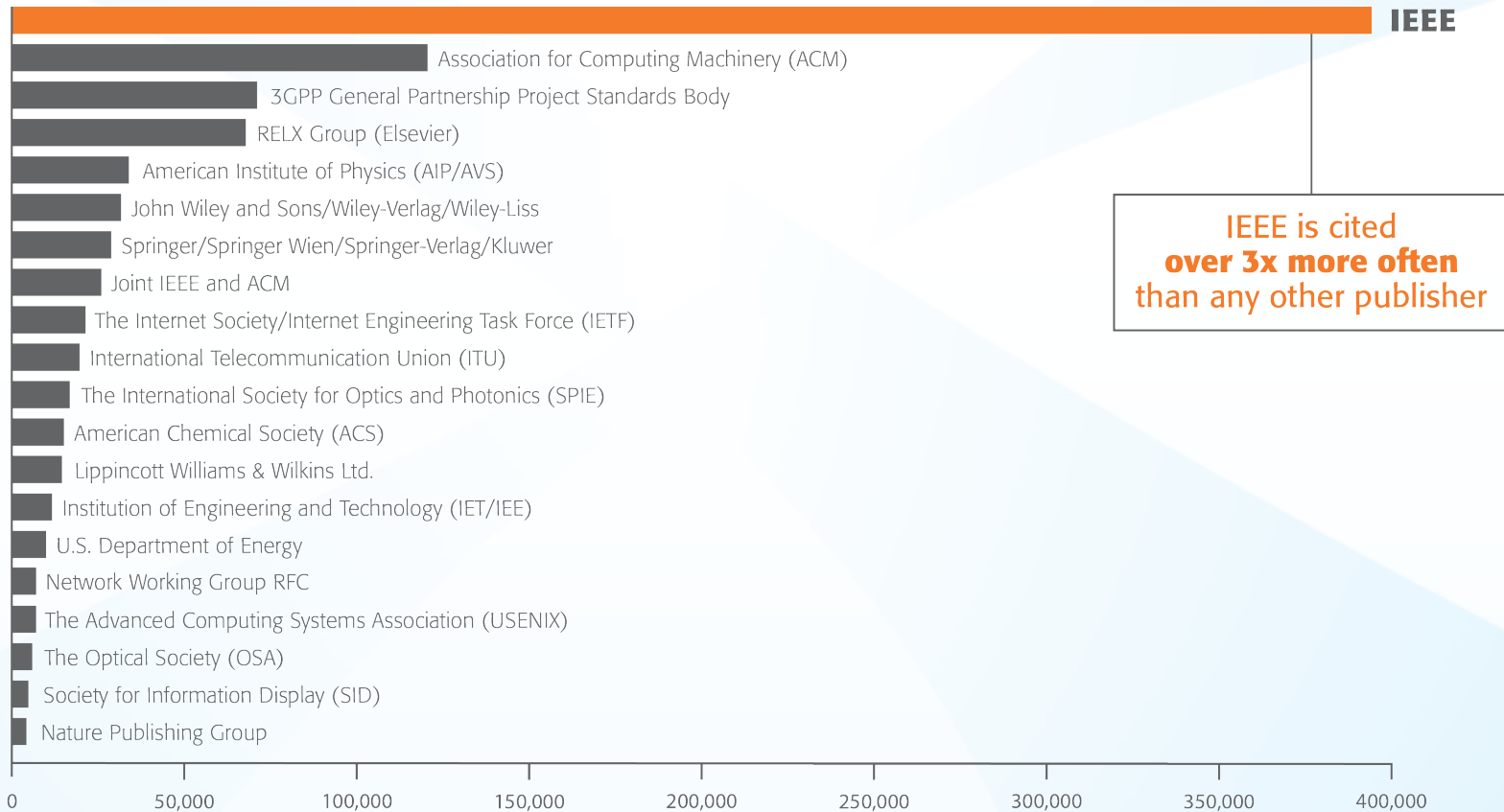# IEEE Covers All Areas of Technology
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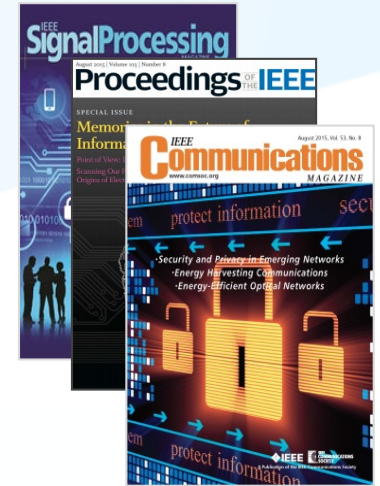
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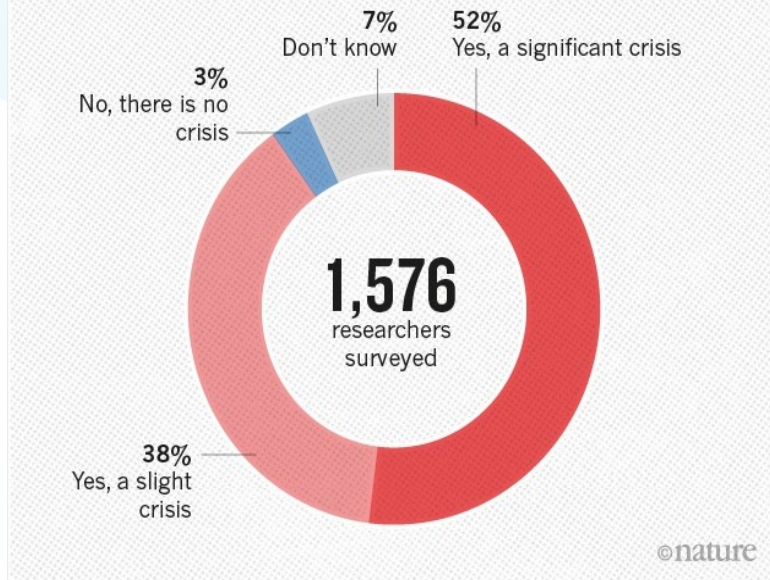
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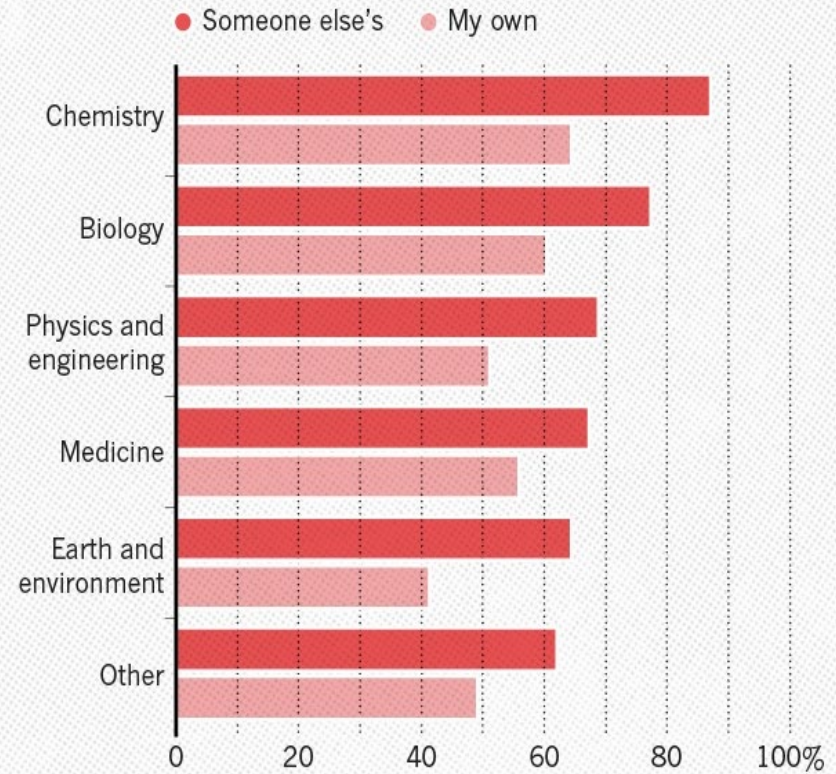
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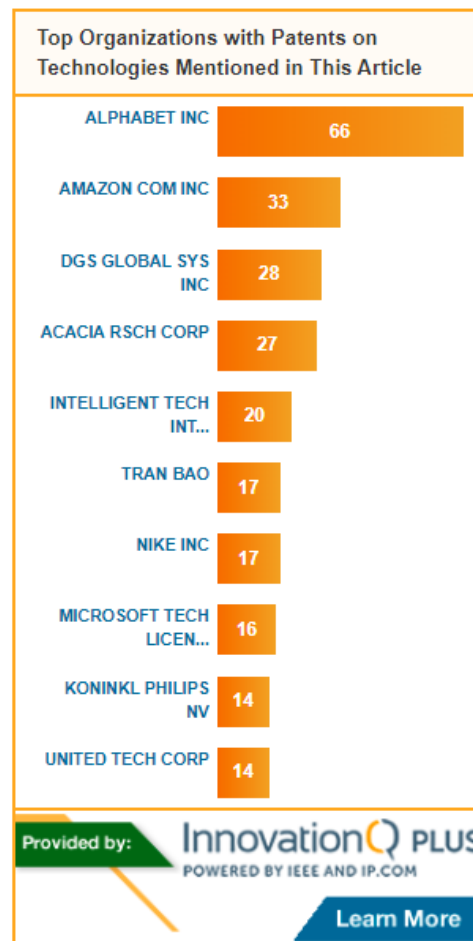
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- Seek key terms in abstract, claims and specifications

- Gather synonyms for these key terms
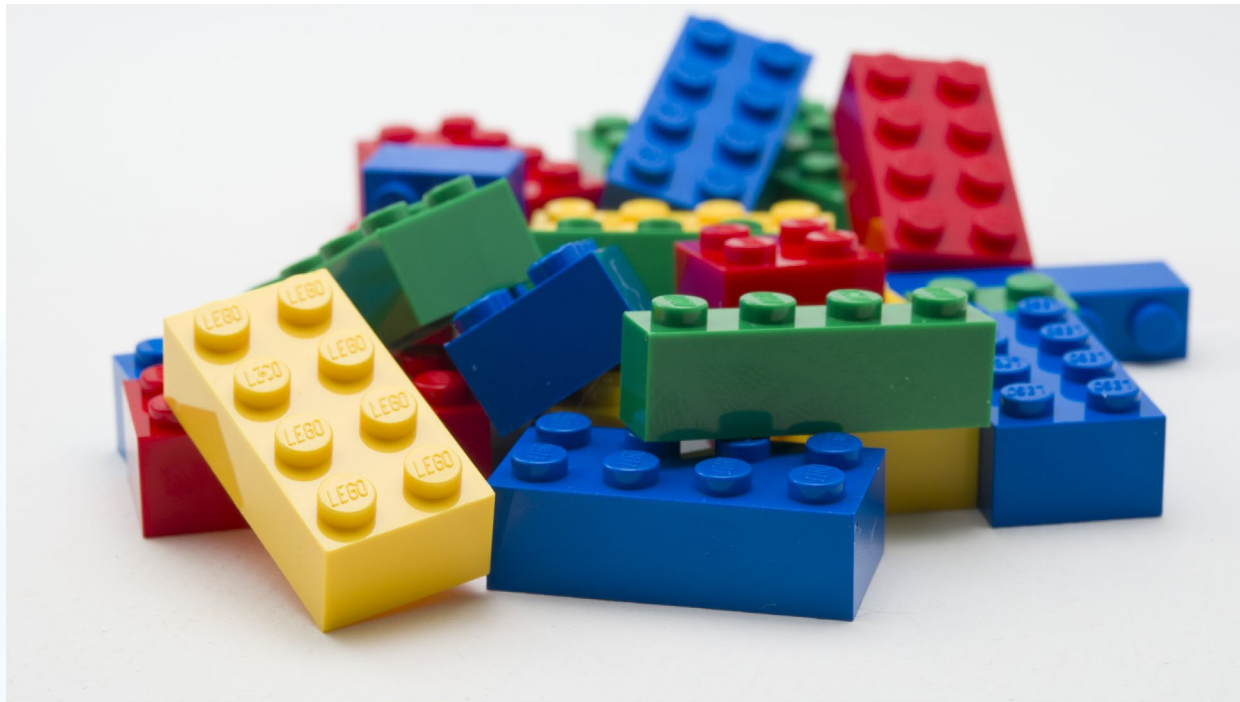
Breaking it down...

- What is the invention?

Optical assembly for laser radar system

- What does it do?

Compact optical assembly that moves in tandem with a laser radar system. Eliminates need for large scanning mirror.

- How does it do it?

Assembly comprises a light source, a lens, a scanning reflector and a fixed reflector. Scanning reflector moves relative to light source, adjusting focus of the beam along the line of sight.

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Key Concepts

(57)   **ABSTRACT**

A compact optical assembly for a laser radar system is provided, that is configured to move as a unit with a laser radar system as the laser radar system is pointed at a target and eliminates the need for a large scanning (pointing) mirror that is moveable relative to other parts of the laser radar. The optical assembly comprises a light source, a lens, a scanning reflector and a fixed reflector that are oriented relative to each other such that: (i) a beam from the light source is reflected by the scanning reflector to the fixed reflector; (ii) reflected light from the fixed reflector is reflected again by the scanning reflector and directed along A line of sight through the lens; and (iii) the scanning reflector is moveable relative to the source, the lens and the fixed reflector, to adjust the focus of the beam along the line of sight.

Example:

"Optical assembly for laser radar"

Optical
Optics
Ocular
Lens

Laser
Laser beam
Ray

Scanning
Check
Inspect
Examine
Screen

Reflector
Mirror
Glass

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Federica Battisti

Also published under: F. Battisti

Affiliation
Roma Tre University, Rome, Italy

Publication Topics
feature extraction, image sequences, rendering (computer graphics), video signal processing, data compression, image resolution, multimedia computing, visual perception, cameras, data visualisation, image
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Biography
Federica Battisti (SM'15) received the Ph.D. degree from Università degli Studi Roma TRE, Italy, in 2010, where she is currently an Assistant Professor. She has been with the Telecommunication Group, Department of Engineering since 2006. Her current research interests include 2-D and multiview image/video quality, and image processing. *(Based on document published on 1 February 2019).*

Co-Authors:

Shohreh Ahvar
Anna Alperovich
I. Amerini
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Francisco Falcone ; Octavian Postolache ; Pablo A. Perez-martinez ; Roberto Di Pietro ; Despina
N. Perrea ; Antoni Martinez-Balleste
IEEE Communications Magazine
Year: 2014 | Volume: 52, Issue: 8 | Magazine Article | Publisher: IEEE
Cited by: Papers (228)
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Year   ∧

[Single Year] [Range]

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From   To
1997   2019

☐ **Bridging the Gap between Social Animal and Unsocial Machine: A Survey of Social Signal**   🔓
Processing
Alessandro Vinciarelli ; Maja Pantic ; Dirk Heylen ; Catherine Pelachaud ; Isabella Poggi ;
Francesca D'Errico ; Marc Schroeder
IEEE Transactions on Affective Computing
Year: 2012 | Volume: 3, Issue: 1 | Journal Article | Publisher: IEEE
Cited by: Papers (166)
▶ Abstract   ((html))   📕 (791 Kb)   ©

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Filiberto Bilotti ; Andrea Alu ; Lucio Vegni
IEEE Transactions on Antennas and Propagation
Year: 2008 | Volume: 56, Issue: 6 | Journal Article | Publisher: IEEE
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Inclusions

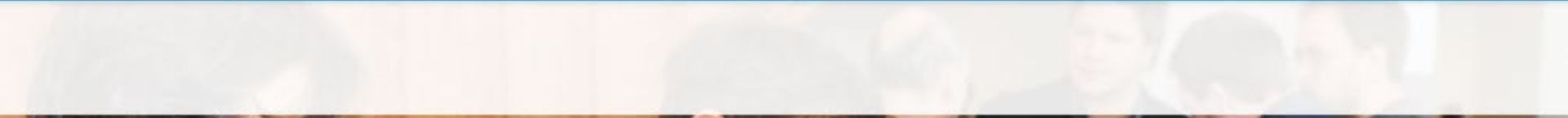# Choose the Right Publication

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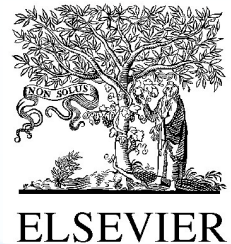
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Elements of a manuscript

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- Abstract
- Keywords
- Introduction
- Methodology
- Results/Discussions/Findings
- Conclusion
- References

Paper Structure
Title

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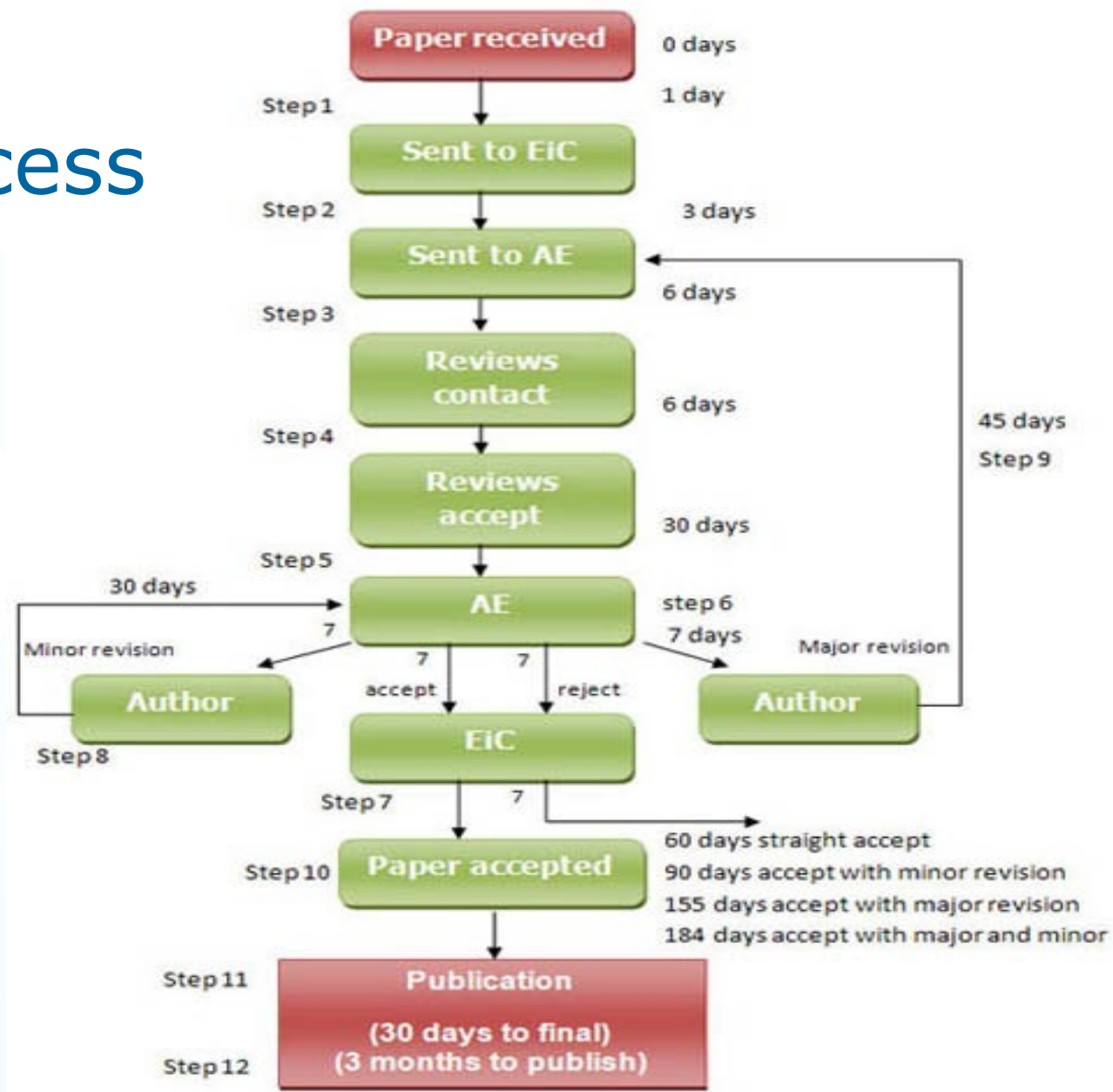
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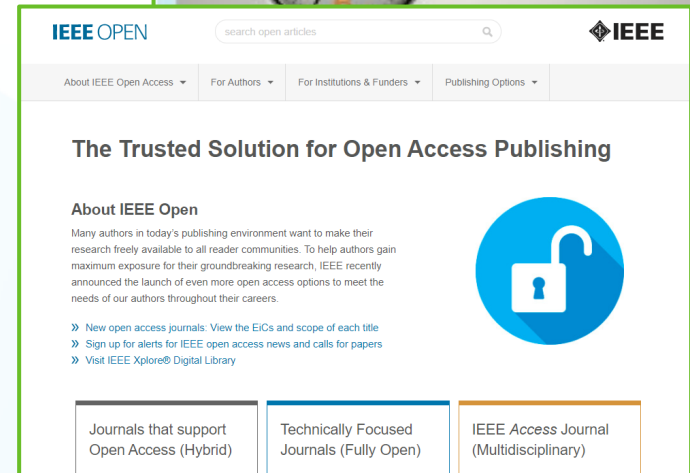
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L. Colace ; V. Sorianello ; G. Assanto ; D. Fulgoni ; L. Nash ; M. Palmer
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Lorenzo Colace ; Gaetano Assanto
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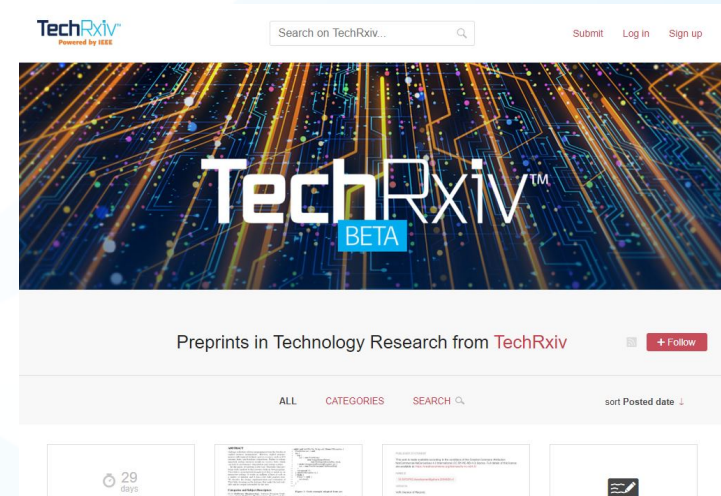
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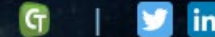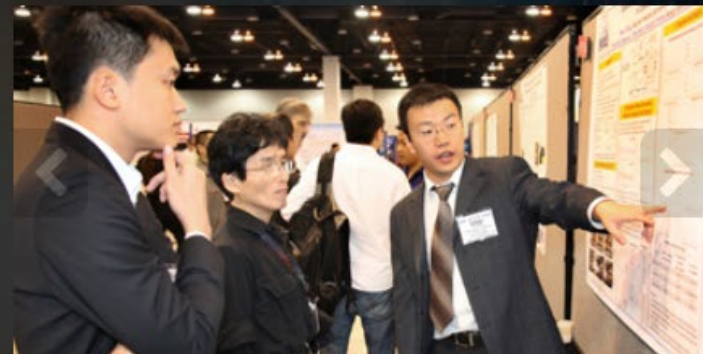
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