COMPUTER GRAPHICS NIGHT

Thursday, November 30, 2023

BEST PAPER AWARD

PREISTRÄGER

»IMPACT ON SOCIETY«

Best Paper Award

PREISTRÄGER
»IMPACT ON SOCIETY«

Antweiler, Dario (Fraunhofer IAIS)
Sessler, David (Fraunhofer IGD)
Rossknecht, Maxim (Fraunhofer IGD)
Abb, Benjamin (Fraunhofer IGD)
Ginzel, Sebastian (Fraunhofer IAIS)
Kohlhammer, Jörn (Fraunhofer IGD / TU Darmstadt)

»Uncovering Chains of Infections through Spatio-Temporal and Visual Analysis of COVID-19 Contact Traces«

Computers & Graphics, 106, 1-8

Best Paper Award

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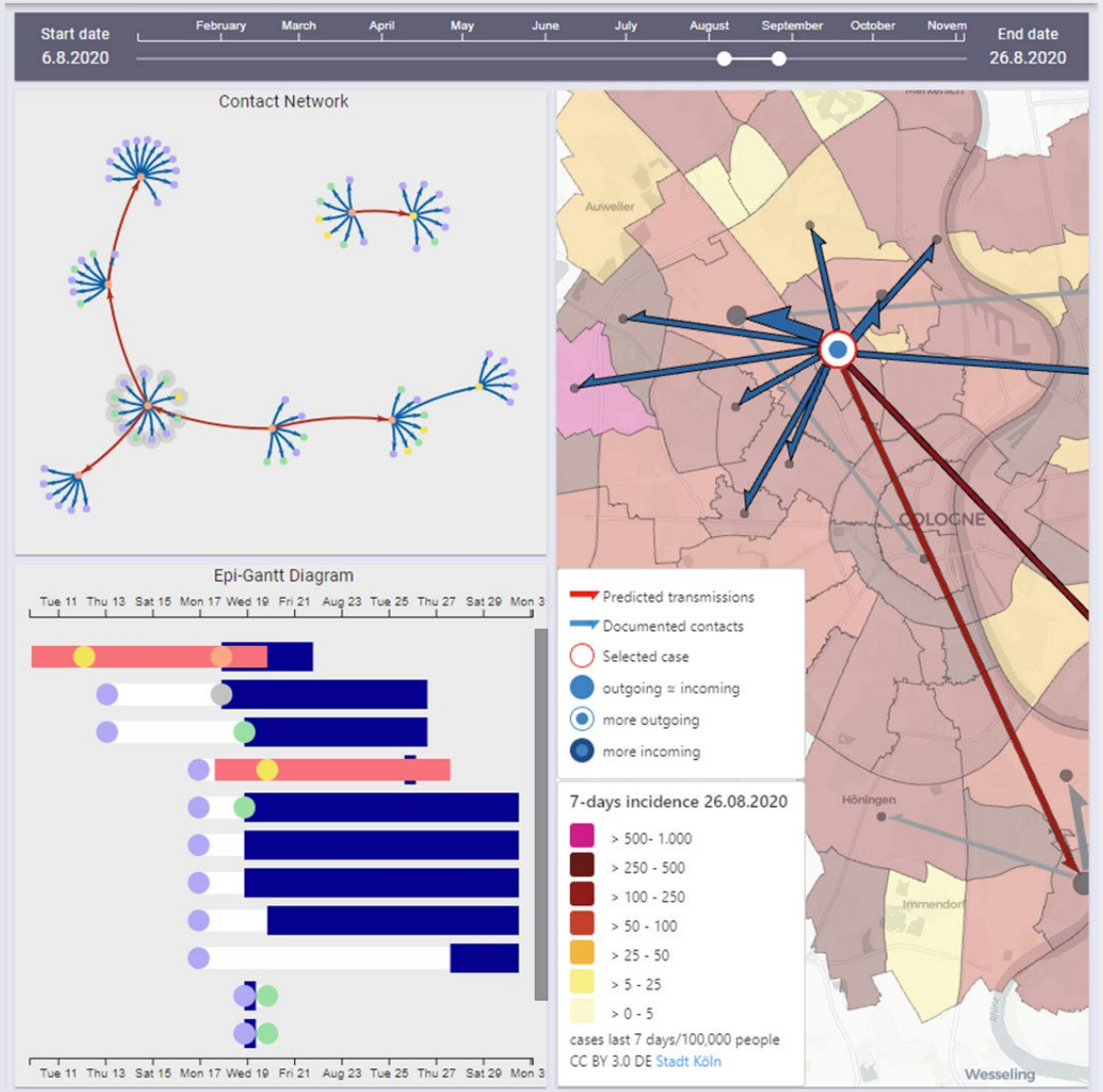
PROBLEM

- Public Health Departments face a critical issue in tracking the spread of COVID-19 due to the fast expansion of infection clusters.
- There's a pressing need for tools to help decipher and manage the complex data related to COVID-19 cluster infections.
- Identifying unseen transmission links in infection chains is a key problem in this context, essential for thorough contact tracing efforts.



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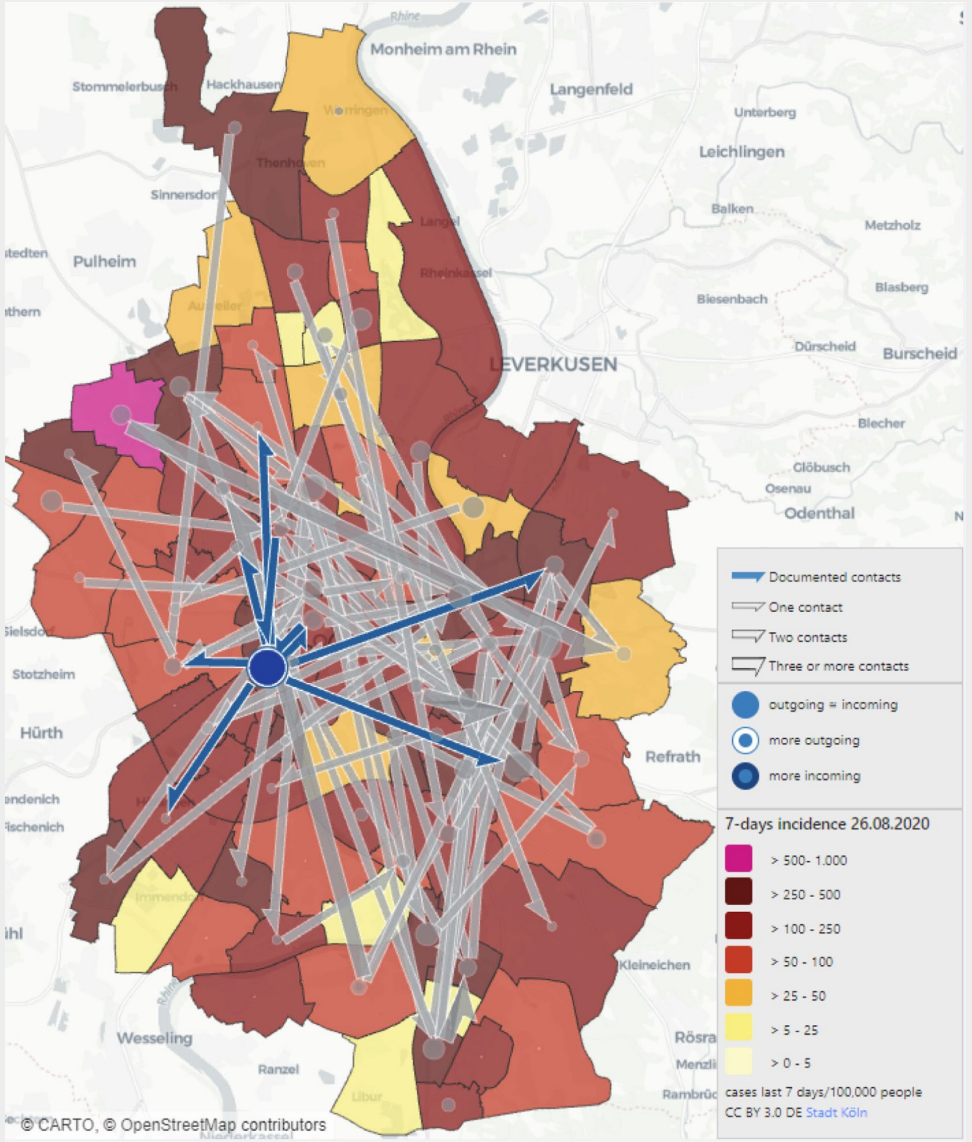
RESULT

- Successful creation of a visual analytics dashboard that aids public health officials in tracking and understanding COVID-19 infection clusters.
- Development of a novel method to identify and suggest unrecorded transmission links between these clusters.

USP

- The paper highlights cutting-edge visual analytics methods that greatly enhance the reach and efficiency of contact tracing operations, applicable across various public health scenarios beyond just COVID-19 tracking.
- The dashboard received positive feedback from several Public Health Departments, affirming its effectiveness in analyzing pandemic trends and aiding response efforts.