Bakalárske práce - ponuka

Miroslav Opiela

25.2.2026

P01?

EPSON

ÉDITION ABONNÉS

S'orienter là où le GPS est aveugle

Une compétition a mis aux prises des prototypes de navigation « indoor ».

LE MONDE | 03.10.2018 à 06h00 |

Par **David Larousserie**

Abonnez vous à partir de 1 € Réagir Ajouter Partager (6) Tweeter

Les clients du centre commercial Atlantis de Nantes ont assisté, samedi 22 septembre, à une étrange première mondiale. Des jeunes en tee-shirt bleu

Bayesian filtering

Žehra
Spišská
Nová Ves
Krompachy
Gelnica
Kysak
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Kvakovce
Humenné
Vranov nad
Topľou
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Michalovce
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Košice
BARCA
Sečovce
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Betliar
Jasov
Rožňava
ský Kras
Háj
Moldava
nad Bodvou
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Trebišov
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Buzica
Füzér
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Aggteleki
emzeti Park
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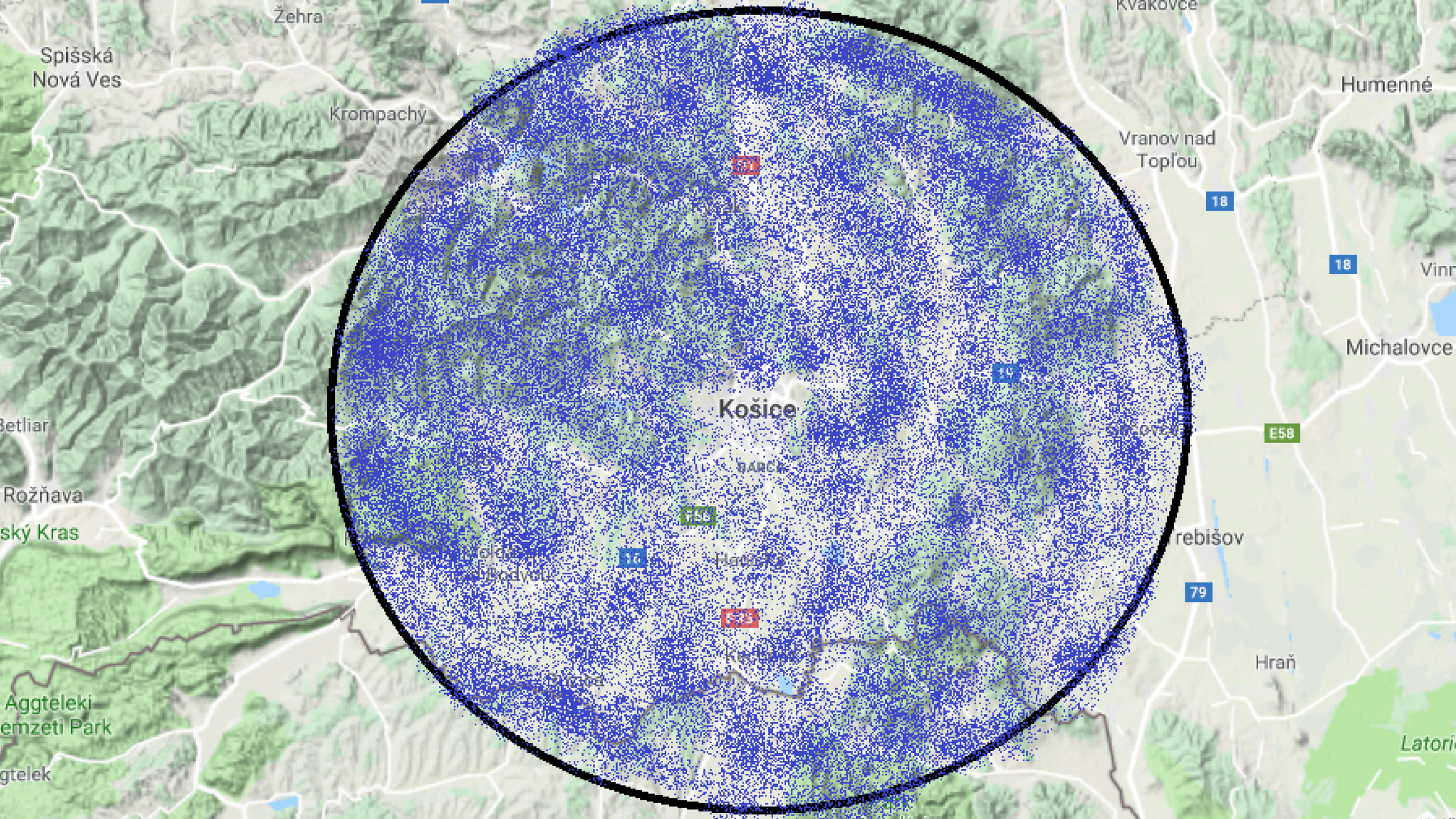
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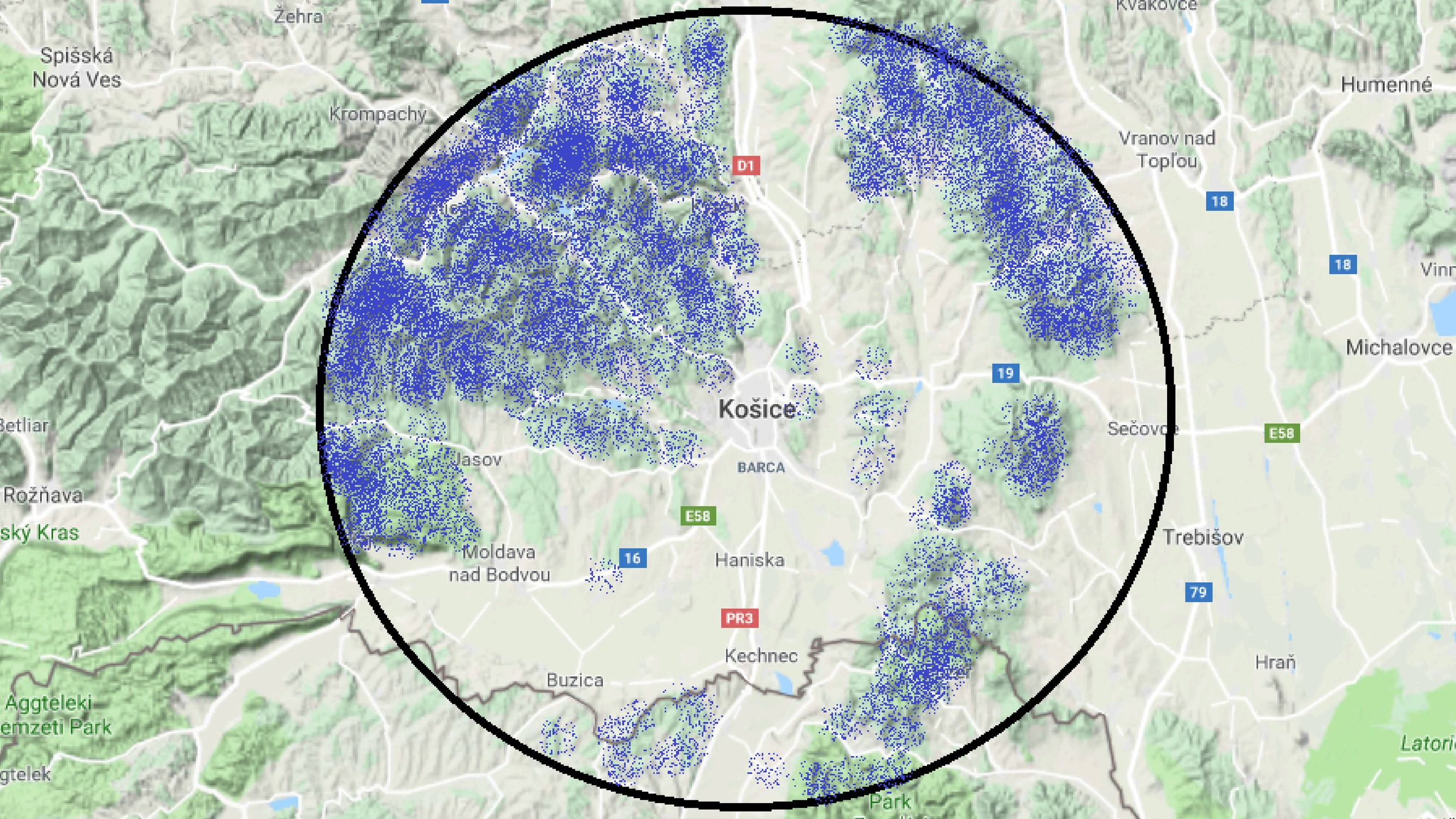
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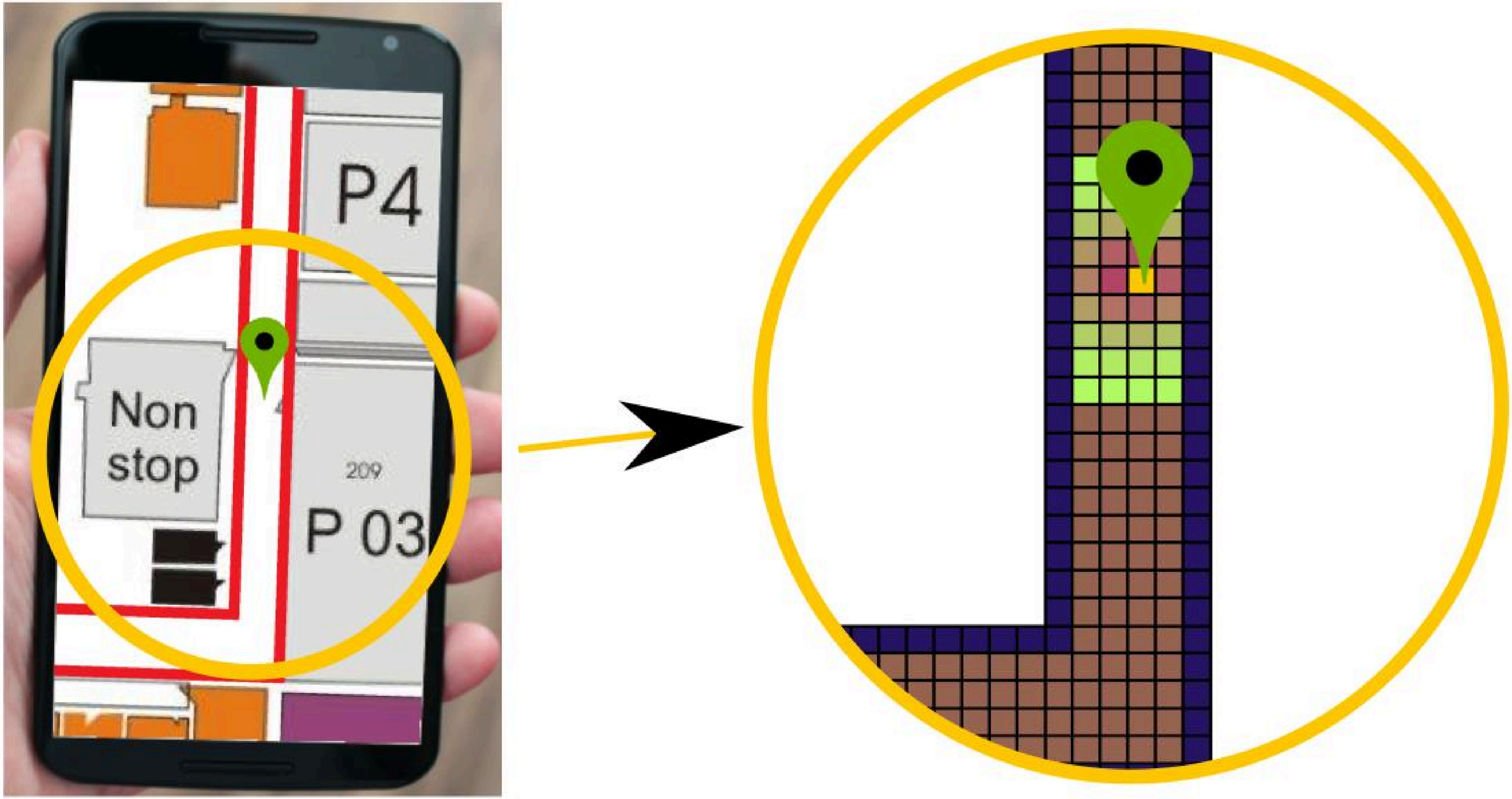
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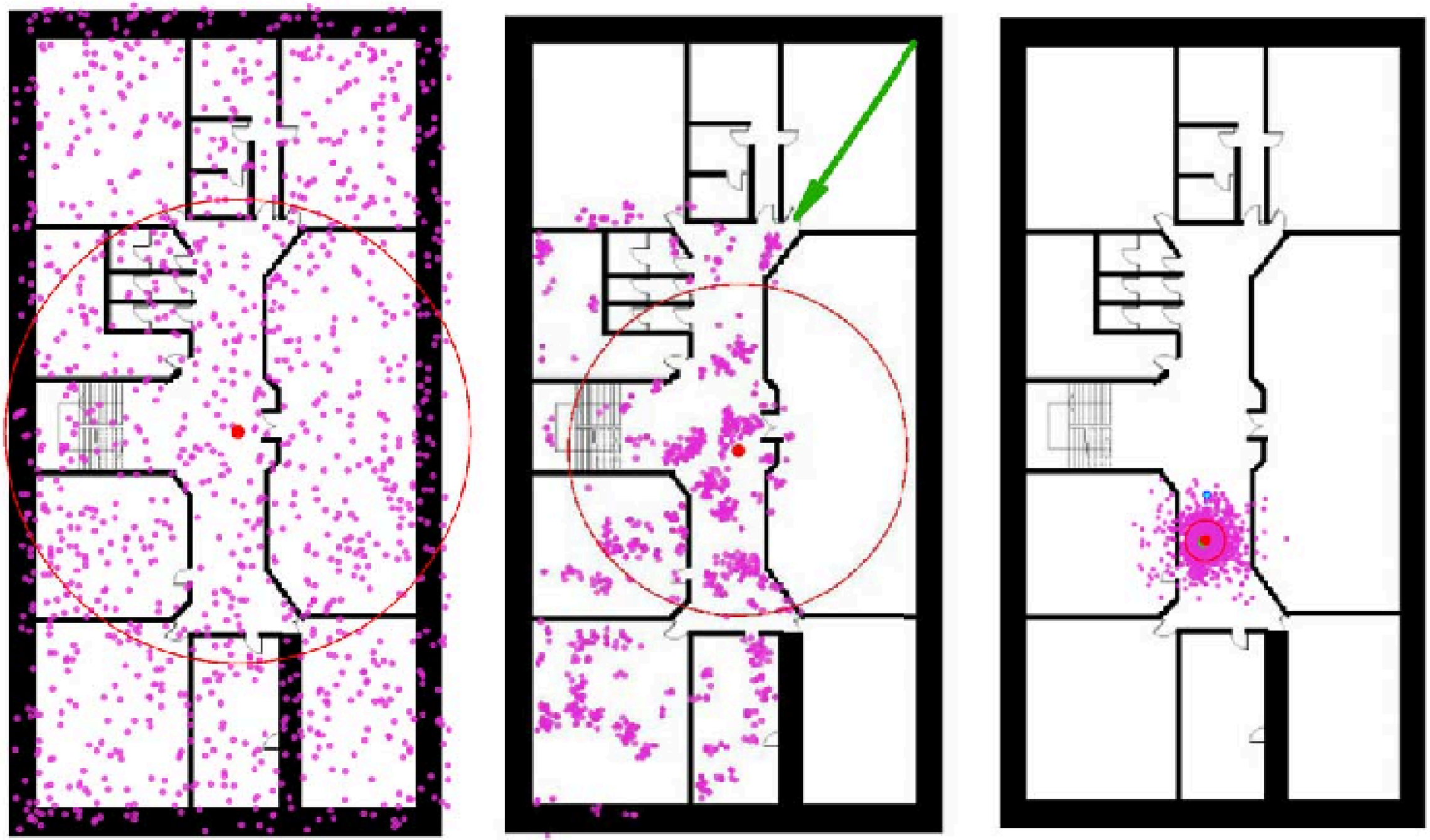
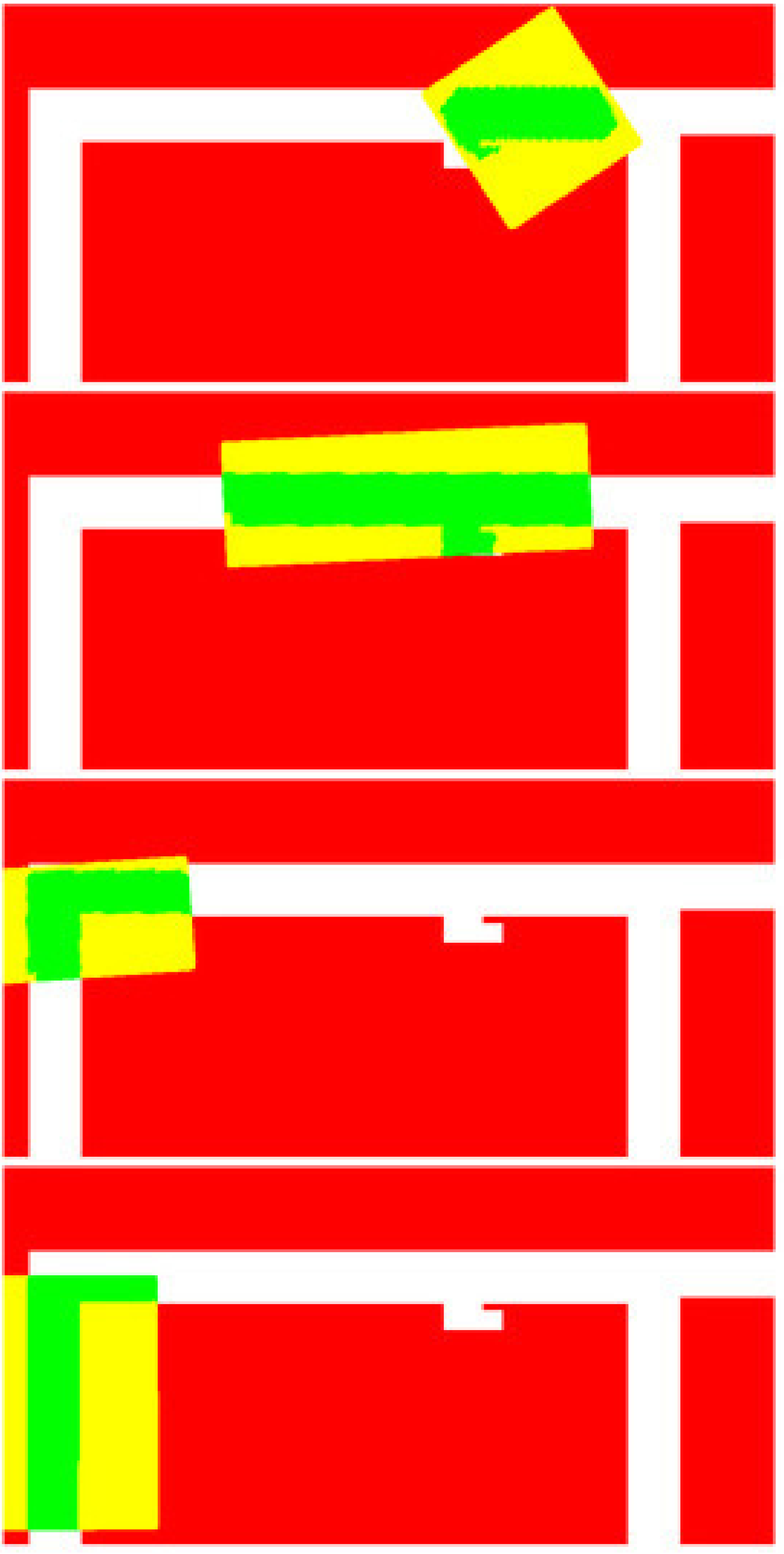
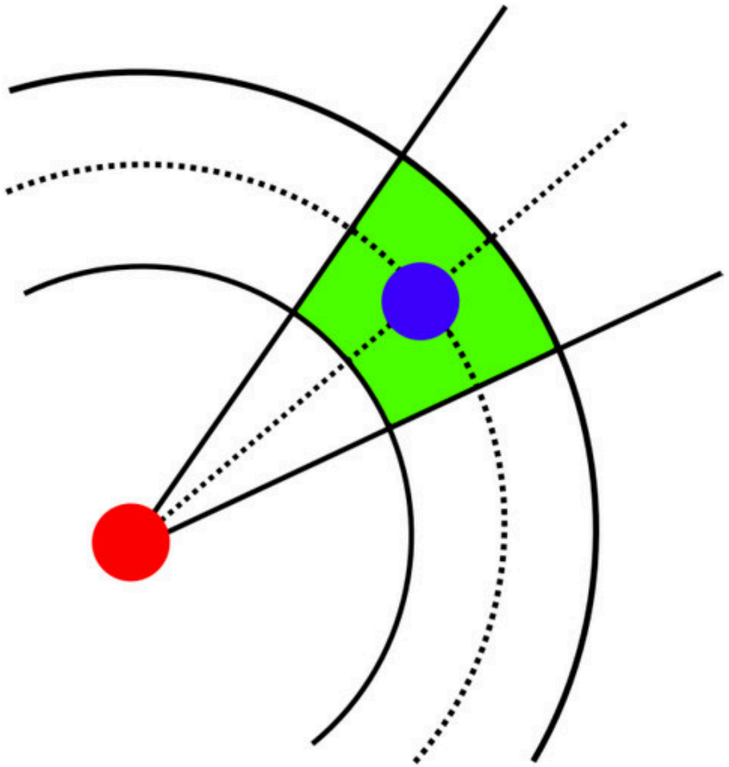
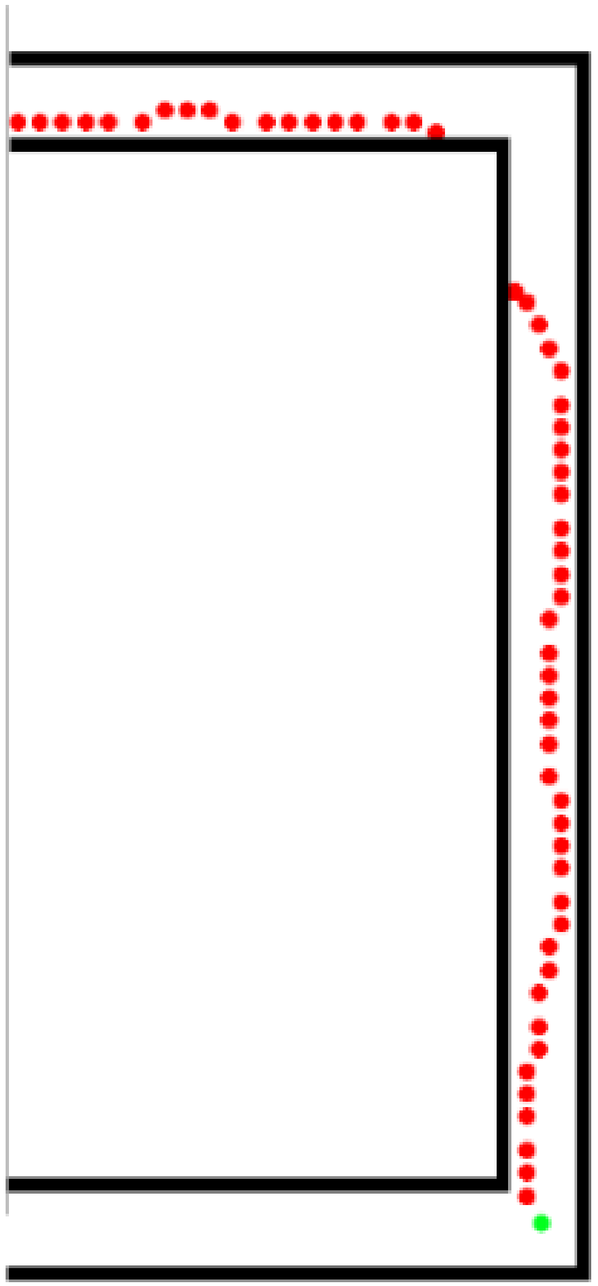
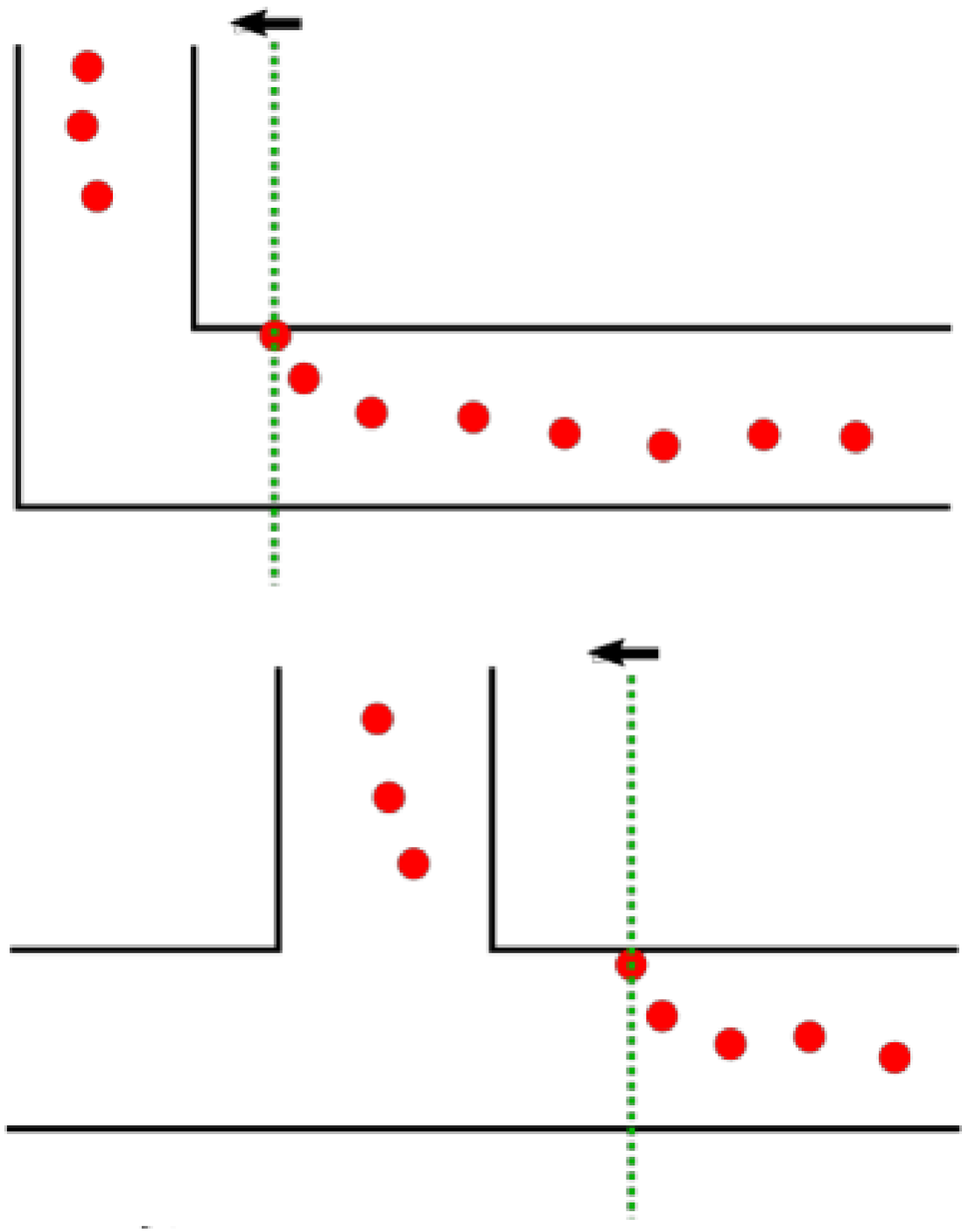
P 03











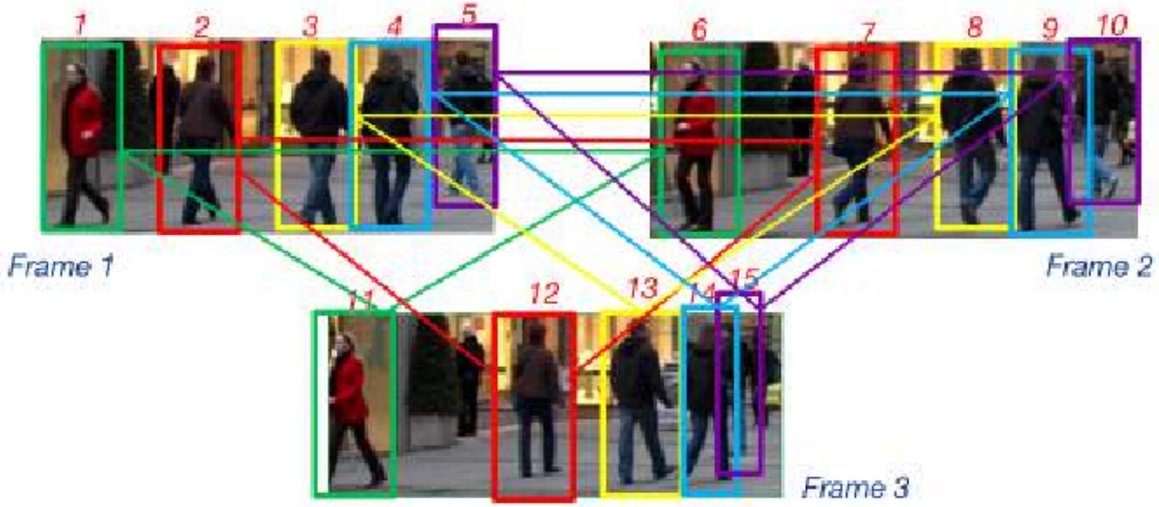
Reproduction and Evaluation of Open Indoor Positioning Methods

Reproduction and Evaluation of Open Indoor Positioning Methods

1. Review existing open-source indoor positioning methods, focusing on availability of code, datasets, and implementation details.
2. **Select and reproduce** a few representative **methods** for indoor positioning or selected subtask based on publicly available descriptions or implementations.
3. **Evaluate** the reproduced methods on **available datasets or a small custom indoor dataset**, comparing their performance to published results.
4. Summarize key challenges and best practices identified during the reproduction process, offering **guidelines for future research** aiming to enhance reproducibility and comparability in indoor positioning.

Grigorios G. Anagnostopoulos

Multi-Object Tracking for Indoor Positioning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Frame 1
Frame 2
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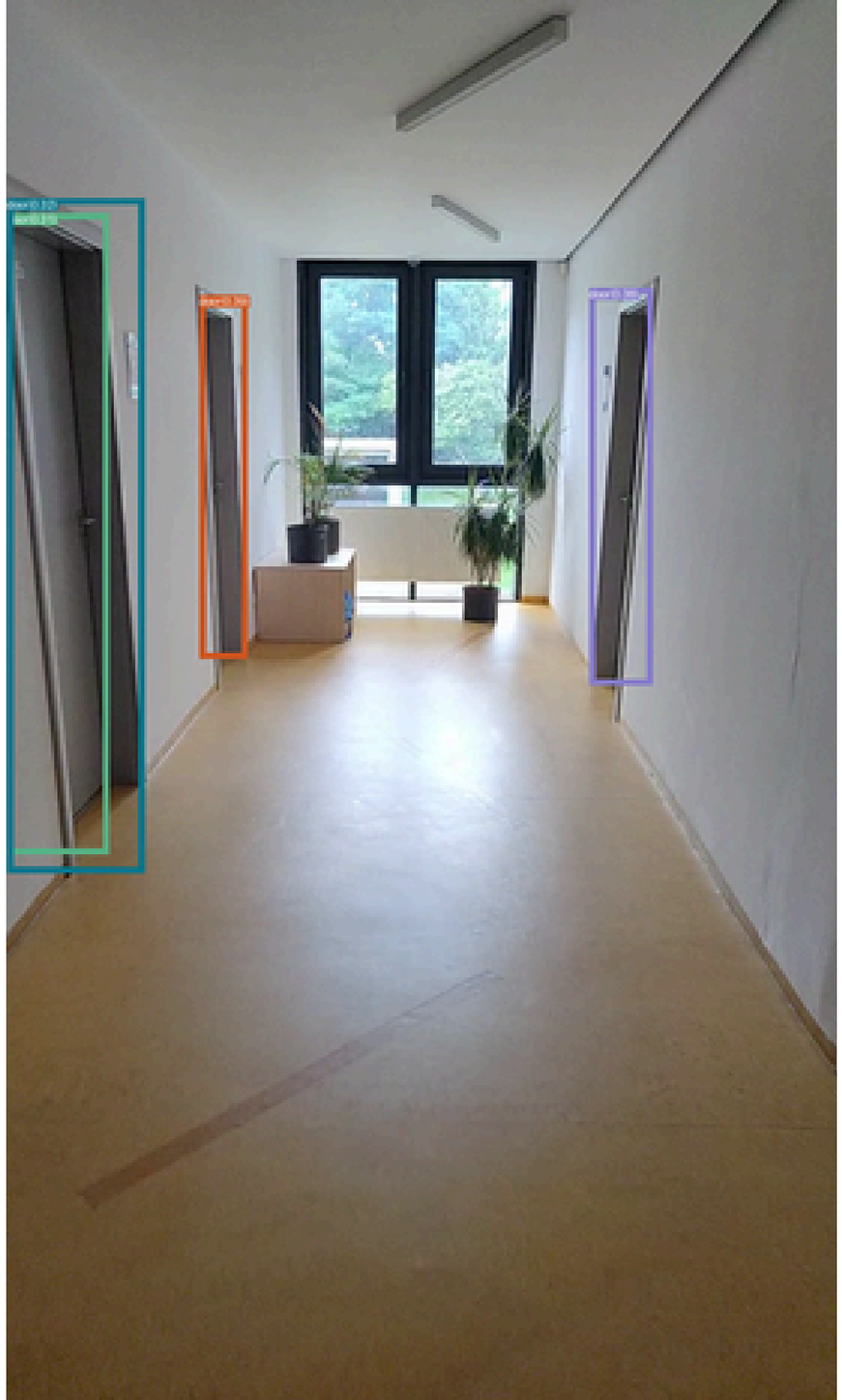
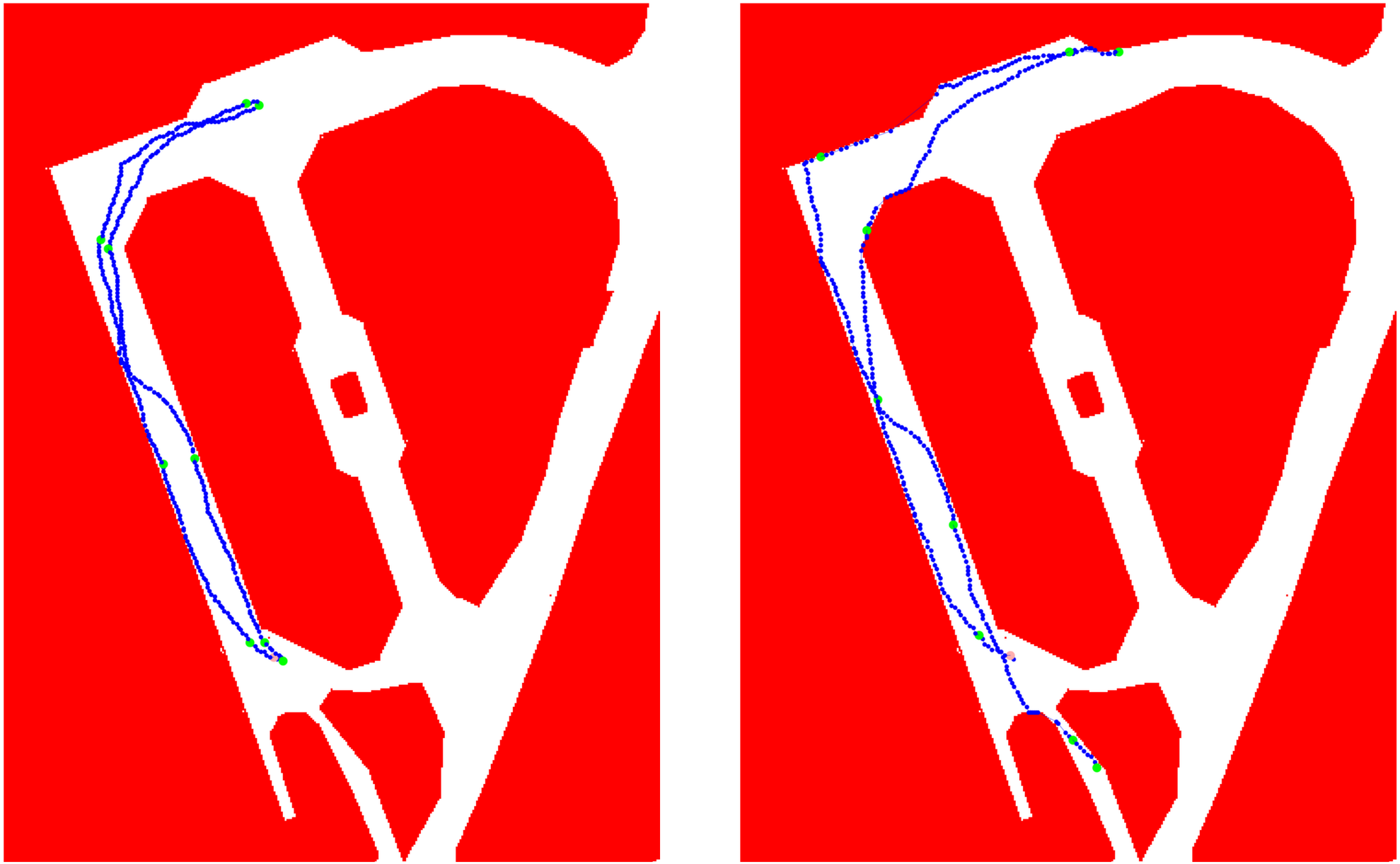
Frame 3



Multi-Object Tracking for Indoor Positioning

1. Explore **camera-based** indoor positioning methods
2. Analyze existing approaches and applications of **multi-object tracking** in indoor environments
3. Design a **camera-based multi-object tracking solution** for indoor environments that utilizes visual data to enhance indoor positioning capabilities.
4. Implement and **experimentally evaluate** the proposed solution, focusing on its **accuracy**, robustness, and **real-time performance.**

Analysis of Estimated Trajectories from Indoor Positioning System



Analysis of Estimated Trajectories from Indoor Positioning System

1. Review indoor positioning methods based on **step detection** and explore approaches for **reconstructing trajectories** from positioning data.
2. Design methods for **trajectory analysis**, including statistical evaluation, clustering of movement paths, or other suitable analytical techniques.
3. Propose and implement a **model for evaluating or predicting trajectories**, using the reconstructed or collected data.
4. Experimentally verify and **evaluate** the proposed methods on indoor positioning data.

Predbežný záujem dajte vedieť čím skôr

https://ics.science.upjs.sk/opiela

https://ics.science.upjs.sk/indora/