

IROS
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Intelligent Robots and Systems
IEEE/RSJ International Conference

Vila Moura, Algarve [Portugal]



Robotics for Quality of Life and Sustainable Development

Robots, Society and Industry

a Survey

Survey: outcome in short

- 116 collected forms
- Mean age: 33.7 years
- Male: 66.4%
- Female: 9.5%
- (unspecified: 24.1%)

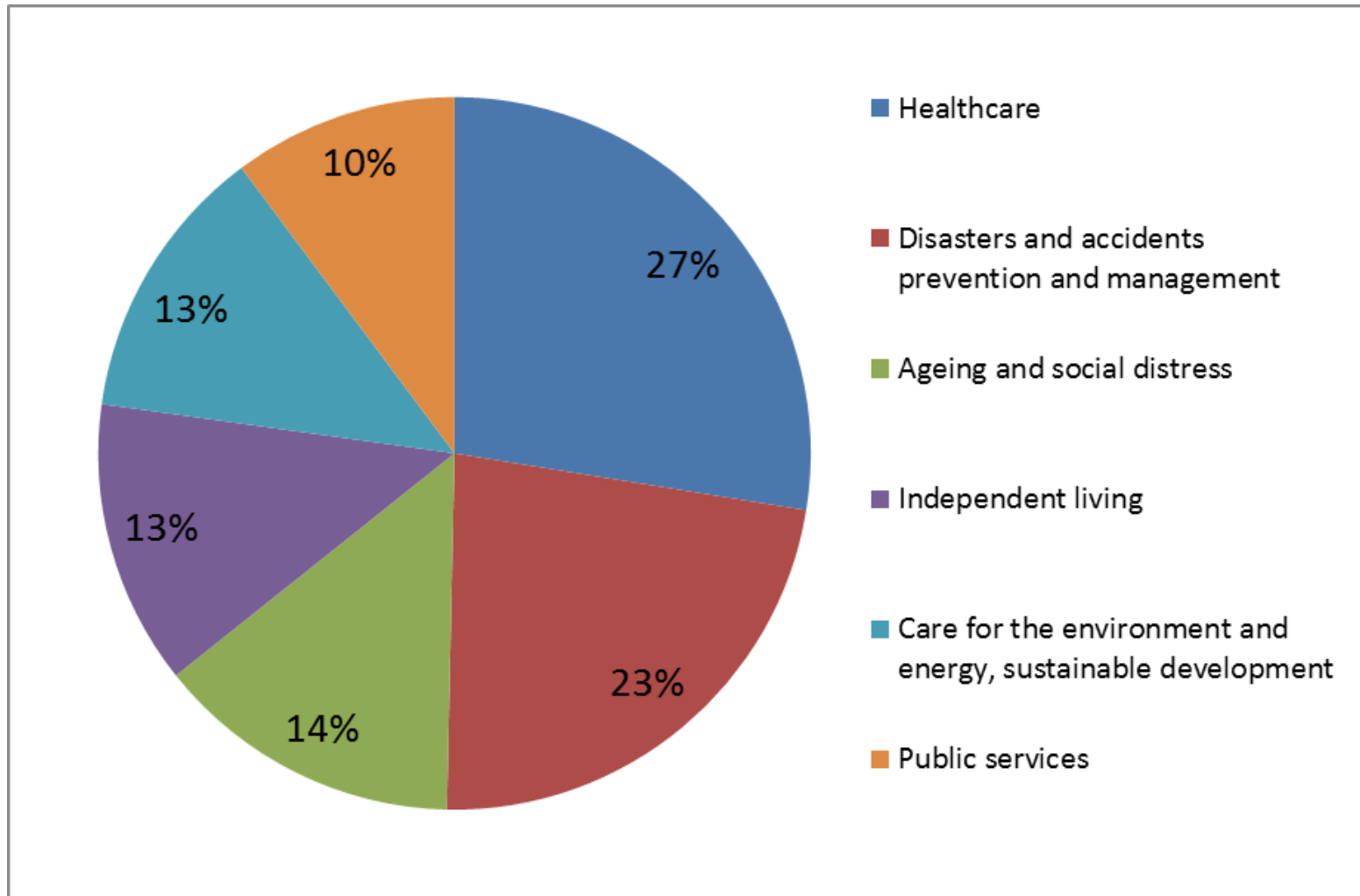
Survey: outcome in short

- **Healthcare** and **Disasters and accidents prevention ad managements** are considered as the main grand societal challenges robotics might help tackling.
- For effectively tackling such challenges, research should mainly focus on:
 - **Improved control schemes and AI methods**
 - **New sensors and actuators**
 - **better Human-robot interfaces**

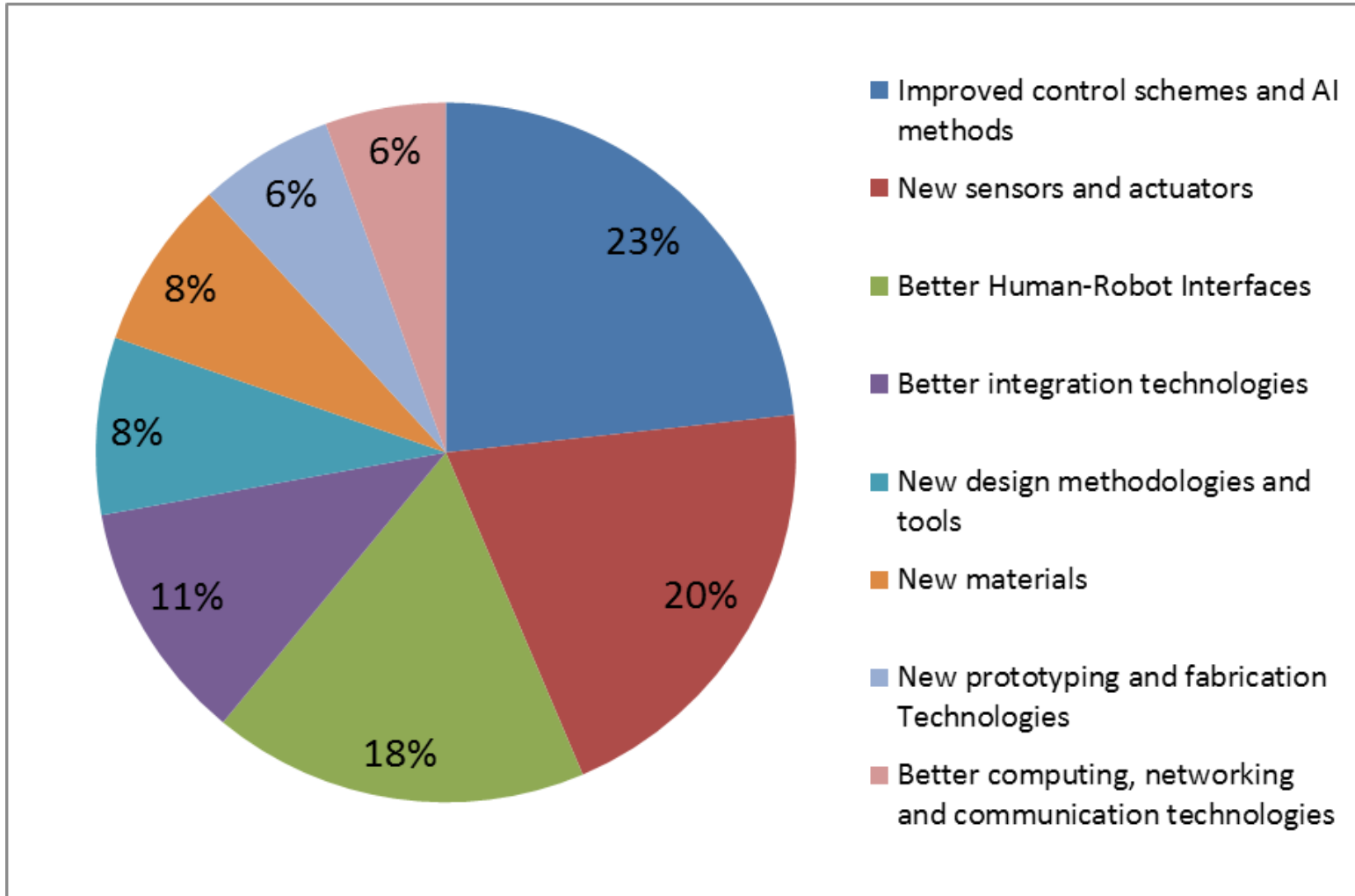
Survey: outcome in short

- In the next decade robotics R&D shall focus mainly on the following grand research avenues:
 - **Medical robotics** and **Prosthetics**
 - **Cognitive robotics**
 - **Intelligent vehicles**
- The industrial sectors which will most benefit from robotics R&D achievements in terms of their competitiveness will be:
 - **Industrial automation, mechatronics**
 - **Services to citizens for quality of life**
 - **Automotive, transportation, personal mobility**

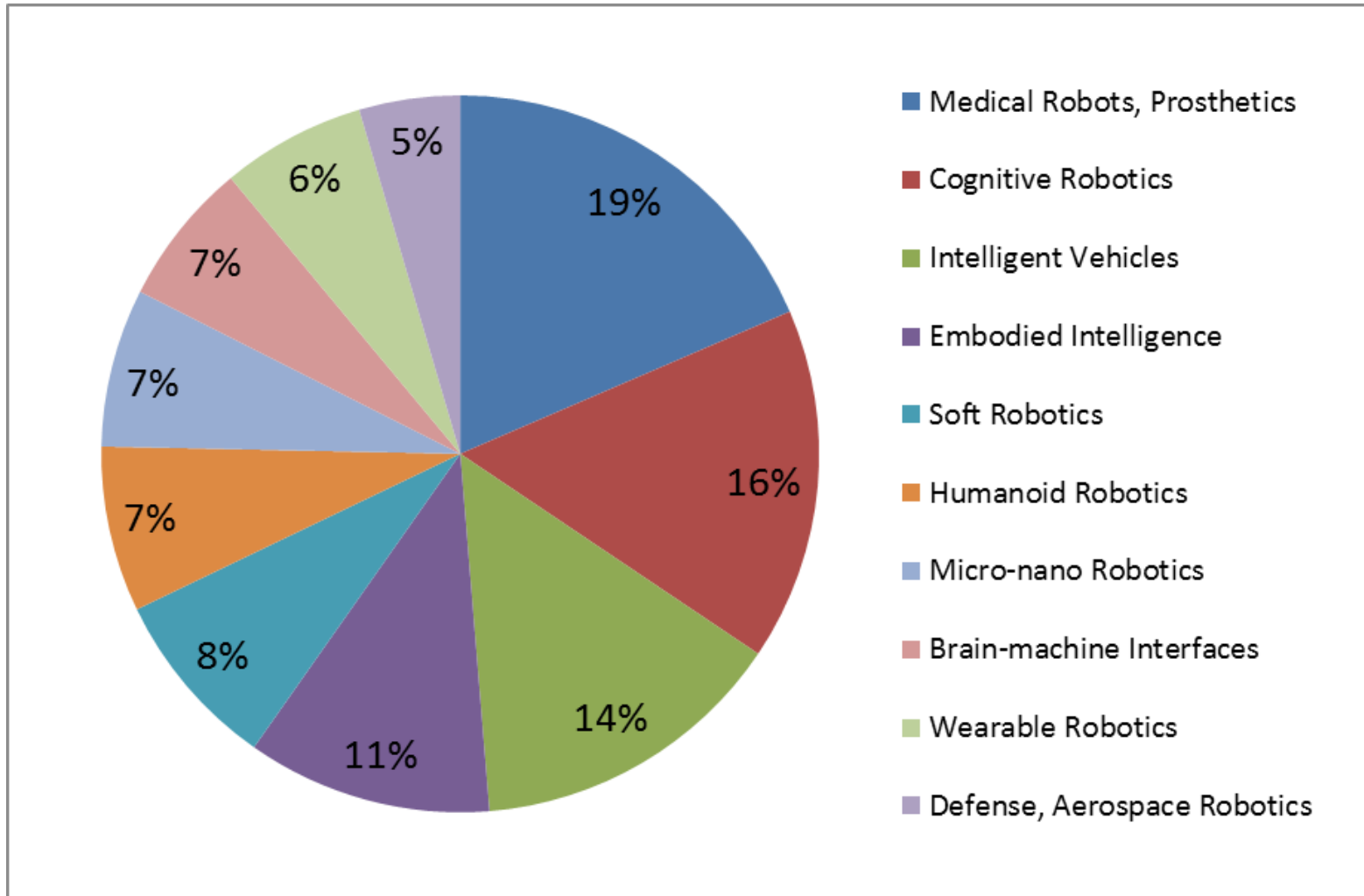
In tackling which grand societal challenge(s) might robotics play a leading role in the next decade?



For effectively tackling such challenge(s), robotics is mainly in need of which of the following enabling technologies:



Which main grand research avenues robotics R&D shall focus on in the next decade



Which industrial sector(s) will most benefit from robotics R&D achievements in terms of their competitiveness?

