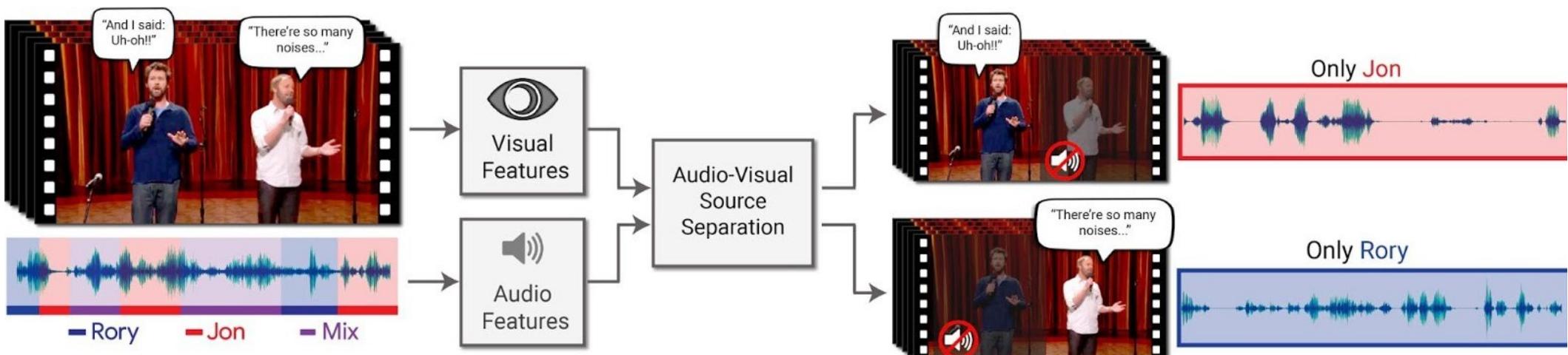


Nowinki ze świata ML z ostatniego tygodnia

Piotr Macek

Looking to Listen at the Cocktail Party

- Narzędzie firmy Google do rozdzielania głosów pochodzących od różnych mówców.



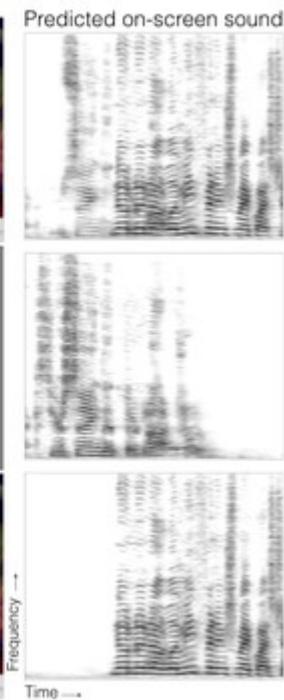
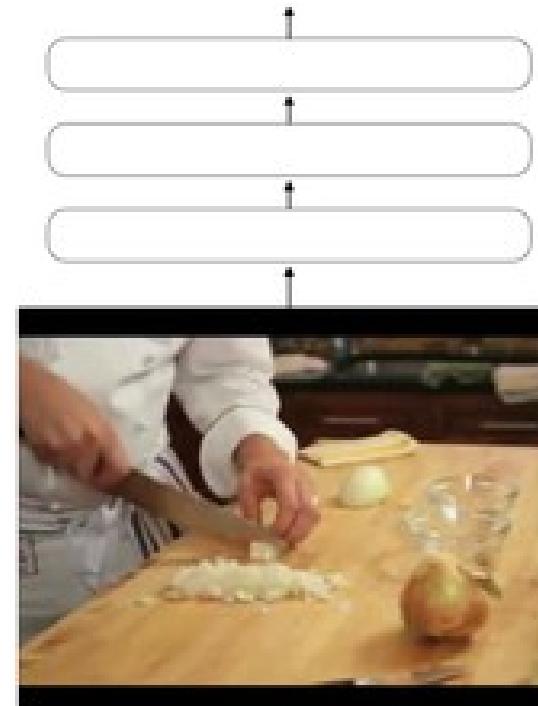
Looking to Listen at the Cocktail Party

- Zastosowania:
 - Polepszenie działania aparatów słuchowych w zatłoczonych miejscach
 - Transkrypcja mowy – Google Assistant
 - Podsłuchy w gwarnych miejscach

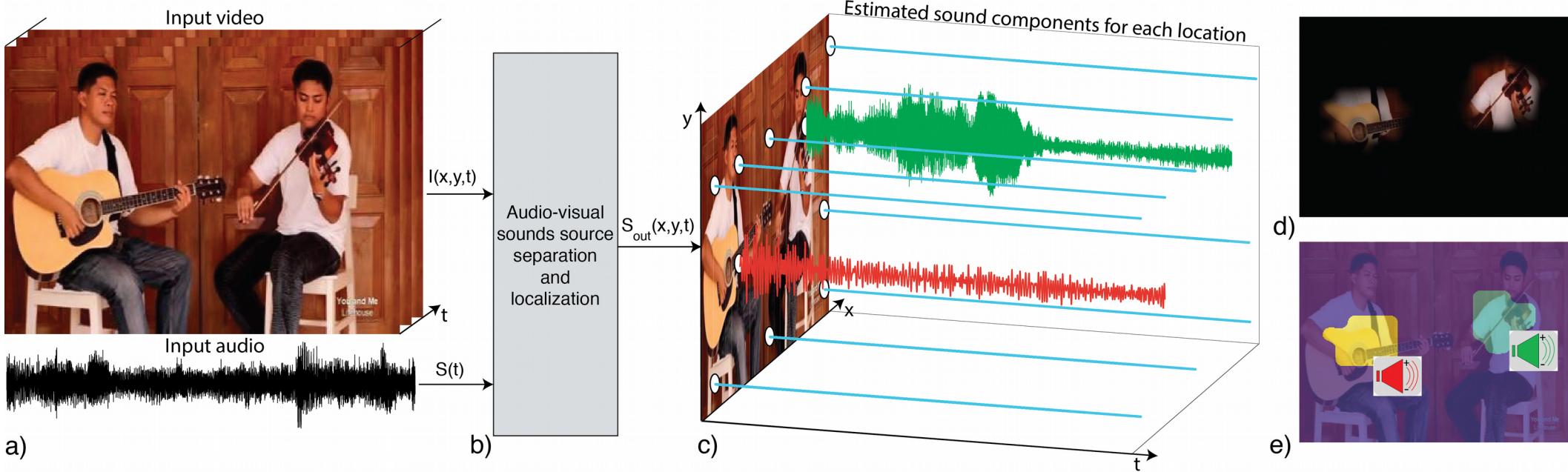
Audio-Visual Scene Analysis with Self-Supervised Multisensory Features



"Cutting in kitchen"



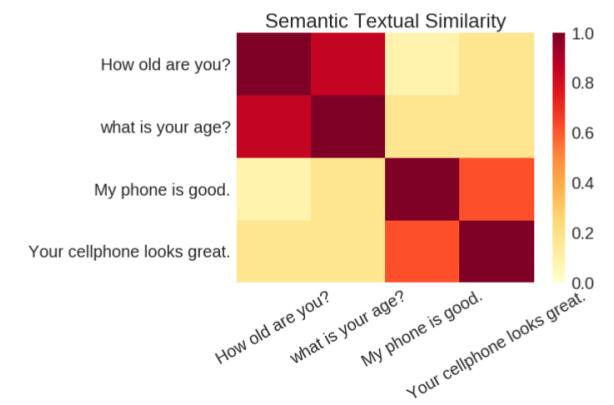
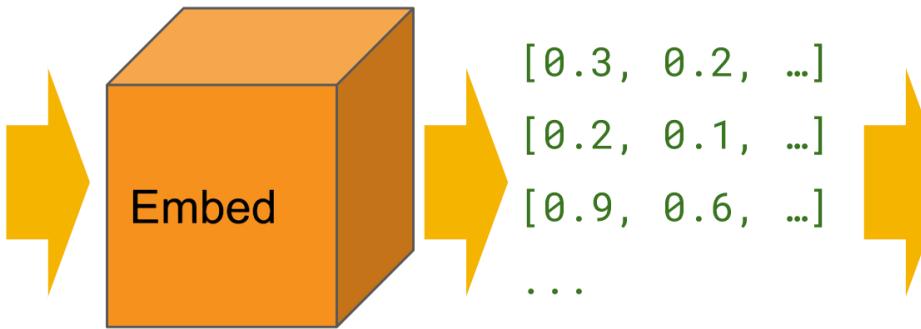
The Sound of Pixels



Talk to Books

- Nowy sposób eksplorowania książek
- Użytkownik wpisuje zdanie lub pytanie i w odpowiedzi dostaje powiązane semantycznie fragmenty książek.
- Opiera się na sentence-embedding.

"How old are you?"
"What is your age?"
"My phone is good."
...



Passages from books

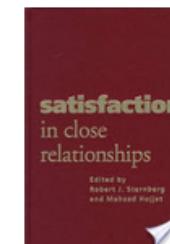
...to sexual attachments to platonic attachments. **This practice of using one term to cover a wide variety of definitions as well as complex emotional states is partly responsible for the confusion most people alive today have with regards to the idea of love.** It is perhaps, then, a beneficial thing to introduce... [\(view in book\)](#)

from *The Sculptor in the Sky*
by Teal Swan



A state of profound physiological arousal" (Harfield, 1988, p. 193). **Companionate love, on the other hand, has been defined as "the affection we feel for those with whom our lives are deeply entwined"** (Harfield, 1988, p. 205). Although both passionate and companionate love are described as having cognitive, emotional,... [\(view in book\)](#)

from *Satisfaction in Close Relationships*
by Robert J. Sternberg, Mahzad Hojjat

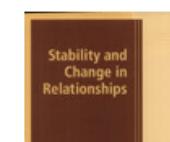


...2005). **Romantic and maternal love are mediated by regions of the brain specific to each** (Beauregard, Courtemanche, Paquette, & St. Pierre, 2009; Zeki, 2007), as well as overlapping regions in the brain's reward system that coincide with areas rich in oxytocin and vasopressin receptors (Zeki, 2007). Beauregard et... [\(view in book\)](#)

from *Wellness and Physical Therapy*
by Fair, Sharon Elayne Fair



In addition, although it is scarcely talked about in current social science, Noller (1996) found that people in the community identified sacrifice, along with caring, trust, respect, and loyalty, as part of their conception of what "love" means. Further, Pam, Plutchik, and Conte (1973) found that altruism is one of



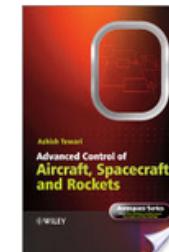


Passages from books

...speed). Furthermore, the requirement of deriving lift (a force normal to the flight direction necessary for balancing the weight) and thrust (the force along flight direction to counter drag) from the denser regions of the atmosphere restricts aircraft flight to the smallest altitudes of all flight vehicles. In...

[\(view in book\)](#)

from *Advanced Control of Aircraft, Spacecraft and Rockets*
by Ashish Tewari



...fly. When air flows over an airplane wing, the air over the top of the wing moves faster due to the wing's shape. When air has to move faster, the pressure is less than when the air moves slower. Thus the pressure under the wing is comparatively greater, pushing up the airplane. This process is called aerodynamic lift.

[\(view in book\)](#)

from *Physics for Animators*
by Michele Bousquet



Most of the time that somewhere is the engine. When the airplane is in straight and level flight, the engine is releasing just enough energy to overcome the drag of moving the airplane through the air and displacing enough air downward—and creating the resulting lift—to exactly balance the pull of gravity.

[\(view in book\)](#)

from *Microsoft Flight Simulator X For Pilots: Real World Training*
by Jeff Van West, Kevin Lane-Cummings



...to control surface. In a guidance and control system, other systems which may make a demand on the direction, speed or attitude of the aircraft have been included, and the flight control system may need to influence the centre of gravity (cg) of the aircraft to perform a manoeuvre efficiently. There is now an



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<https://arxiv.org/abs/1804.03641>
- <https://github.com/andrewowens/multisensory>

Dziękuję za uwagę!