

PR Lab Talk #4

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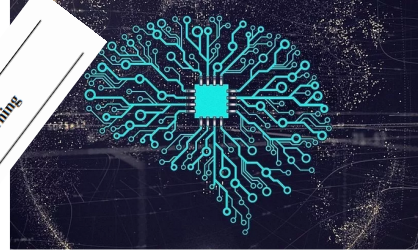
How to get a divorce with your supervisor?

What makes a good paper?

What makes a paper good?

- Attractive title?
- Cool figures?
- Proper writing?
- Outstanding results?

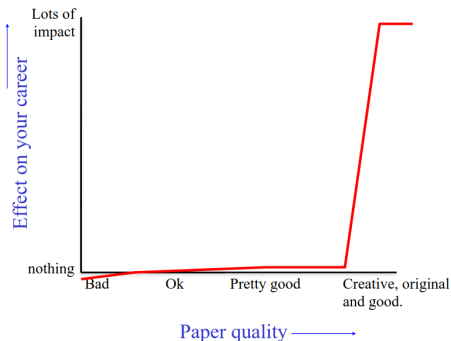
An embarrassingly simple approach to zero-shot learning



Validation Method	Classifier				
	SVM	SMLR	Naive Bayes	Decision Trees	kNN
Fall Detection pooled	98.2	98.0	66.3	95.9	97.9
Fall Detection subject-wise	97.2	96.6	62.8	93.8	96.8
Fall Classification pooled	98.7	99.6	90.1	98.2	98.2
Fall Classification subject-wise	98.2	99.6	88.3	98.2	98.7

A paper

- Main aim is to convey a message, right?
- In essence, tries to answer a question(s)! (Research Question?)



[According to Jan's suggested link]

RQ

- MSc student: "How do you formulate a research question? They did not teach this to us!"
- Then, how do we learn how to do it?

Some Info - RQ in papers

- Research purpose vs Research Question

Table 1. Studies analyzing research article introductions that report whether they present their research purpose and whether they introduce research questions (RQs) and/or hypotheses.

Study	Field	Present the research purpose	Specify the RQs or hypotheses
Mahzari & Maftoon (2007) N = 200 (100 each language)	Medicine	English: 93% Persian: 83%	English: 0% Persian: 9%
Tessuto (2015) N = 90	Law	English: 28%	English: 20%
Rahimi & Farnia (2017) N = 70 (35 each language)	Dentistry	English: 71.4% Persian: 91.4%	English: 37% Persian: 0%
Omidi & Farnia (2016) N = 60 (30 each language)	Physical education	English: 100% Persian: 86.6%	English: 73.3% Persian: 23.3%
Loi & Evans (2010) N = 40 (20 each language)	Educational psychology	English: 100% Chinese: 80%	English: 35% (RQs), 75% (H) Chinese: 10% (RQs), 0% (H)
Kanoksilapatham (2012) N = 179	Civil engineering (n = 60) Software engineering (n = 60) Biomed. engineering (n = 59)	English: 78.3%* English: 81.7%* English: 83%*	
Maswana, Kanamaru, & Tajino (2015) N = 69	Structural engineering (n = 9) Environ. engineering (n = 15) Electrical engineering (n = 21) Chemical engineering (n = 14) Computer science (n = 8)	English: 89%* English: 100%* English: 90%* English: 93%* English: 100%*	English: 22%** English: 33%** English: 14%** English: 43%** English: 13%**
Shehzad (2011) N = 56	Computer science	English: 98.21%	English: 32.14%
Posteguillo (1999) N = 40	Computer science	English: 95%	English: 22.5%
Anthony (1999) N = 12	Software engineering	English: 42%	English: 0%

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¹M. Thelwall and A. Mas-Bleda (Mar. 2020). "How Common Are Explicit Research Questions in Journal Articles?" In: *Quantitative Science Studies*, pp. 1–19. ISSN: 2641-3337. DOI: 10.1162/qss_a_00041

Some Info - How to formulate?

- Stephan's discussion last week?

would need guidance. Here we mention some of the common strategies used to identify clinical research problems.⁶⁻⁹

- (1) Relying on one's own clinical experience or practice;
- (2) discussing issues with other researchers at professional meetings;
- (3) following developments in the literature and identifying gaps in the literature;
- (4) discussing issues with a mentor;
- (5) being alert to new ideas and technological advances;
- (6) brainstorming with friends and colleagues;
- (7) keeping the imagination roaming;
- (8) searching information about the national and global burden of disease; and
- (9) using focus groups.

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¹L. Thabane, T. Thomas, C. Ye, and J. Paul (Jan. 2009). "Posing the Research Question: Not so Simple". In: *Canadian Journal of Anesthesia/Journal canadien d'anesthésie* 56.1, pp. 71–79. ISSN: 0832-610X, 1496-8975. DOI: 10.1007/s12630-008-9007-4

Points of Discussion...

- How did you learn to formulate a Research Question?
- Do you use systematic way for formulating a Research Question?
- Do you explicitly mention your research questions?
- Do senior researchers nail it every time?
- Is it related to the environment you are in?