




Open Access - I

Dr. Luis Ibanez, Kitware

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US CDC Mortality Statistics

College Age Range

- Accident (car)
- Suicide
- Cancer
- Heart disease
- Homicide
- HIV

US CDC Mortality Statistics

2,397,615 deaths in 2004

- Diseases of Heart 652,486
- Malignant Neoplasm (cancer) 553,888
- Cerebro-vascular disease 150,074
- Chronic respiratory disease 121,987
- Accidents (unintentional) 112,012
- Diabetes 73,138
- Alzheimer's disease 65,965
- Influenza and pneumonia 59,664

US CDC Mortality Statistics

2,397,615 deaths in 2004

US CDC - Life Expectancy

- Male 75 years
- Female 80 years

Scientific Research

- **US GDP** \$13 Trillion
- **Federal Budget** \$ 2.4 Trillion
- **Federal Research Budget** **\$143 Billion**
 - Defense \$ 80 Billion
 - **Health** \$ **30 Billion**
 - NASA \$ 12 Billion
 - Energy \$ 9 Billion
 - NSF \$ 4.5 Billion
 - EPA \$ 0.5 Billion

NIH Institutes Budget

- **Cancer** \$ 4.8 Billion
- **Infectious Diseases** \$ 4.6 Billion
- **Heart Lung and Blood** \$ 2.9 Billion
- **Aging** \$ 1.0 Billion
- **National Library of Medicine** \$ 0.3 Billion
- **Biomedical Imaging** \$ 0.3 Billion

HR2589

Longevity Agent

Can extend lifespan
from 75 years
to 95 years !!

Pierce the Illusion...

to see the void.

The Mouse that Roared

In the March of 1998 **Walt Disney Co.** chairman Michael D. Eisner was involved in intense lobbying activities on Capitol Hill. At the top of Disney's agenda was a request for Congress to resolve one of Disney's most urgent problems: The copyright for Disney's crown jewel, **Mickey Mouse**, will expire after **2003**, 75 years after the appearance in 1928 of the Disney cartoon that launched Mickey's golden career, "Steamboat Willie." In fast succession, copyrights will end for **Pluto in 2006** and **Goofy in 2008**. Early in the next century, protections also will expire for Bambi, Dumbo, Donald Duck, Snow White and all the Seven Dwarfs. Without copyright, Disney would collect no fees for the showing of classic movies such as "Fantasia," and other companies could freely use its characters in their movies and videos.

The Mouse that Roared

To prevent the loss of its most precious assets Disney pursued a nonmarket strategy designed and implemented by Preston Patten, **Disney's head of lobbying operations**. First, Disney **increased its campaign contributions**. Recipients of campaign money included members of key committees such as Sen. **Patrick J. Leahy**, D-Vt., a family friend of Eisner and ranking Democrat on the Judiciary Committee, and Rep. **Howard Coble**, R.-N.C., **chairman of the Judiciary Subcommittee on Arts and Intellectual Property**, which oversees copyright issues.

Disney contributed nearly \$800,000 to political campaigns in the 1997-98 cycle.

The Mouse that Roared

In 1998 this strategy bore fruit.

In the Spring of 1998, the U.S. House of Representatives debated

HR2589

(sponsored by Rep. Coble):

The Copyright Term Extension Bill.

The bill would extend the 75-year copyright by 20 years. It would thus grant Disney exclusive rights to the images for another generation and make it harder for them to be reproduced by other manufacturers when copyrights run out.

Collateral Damage

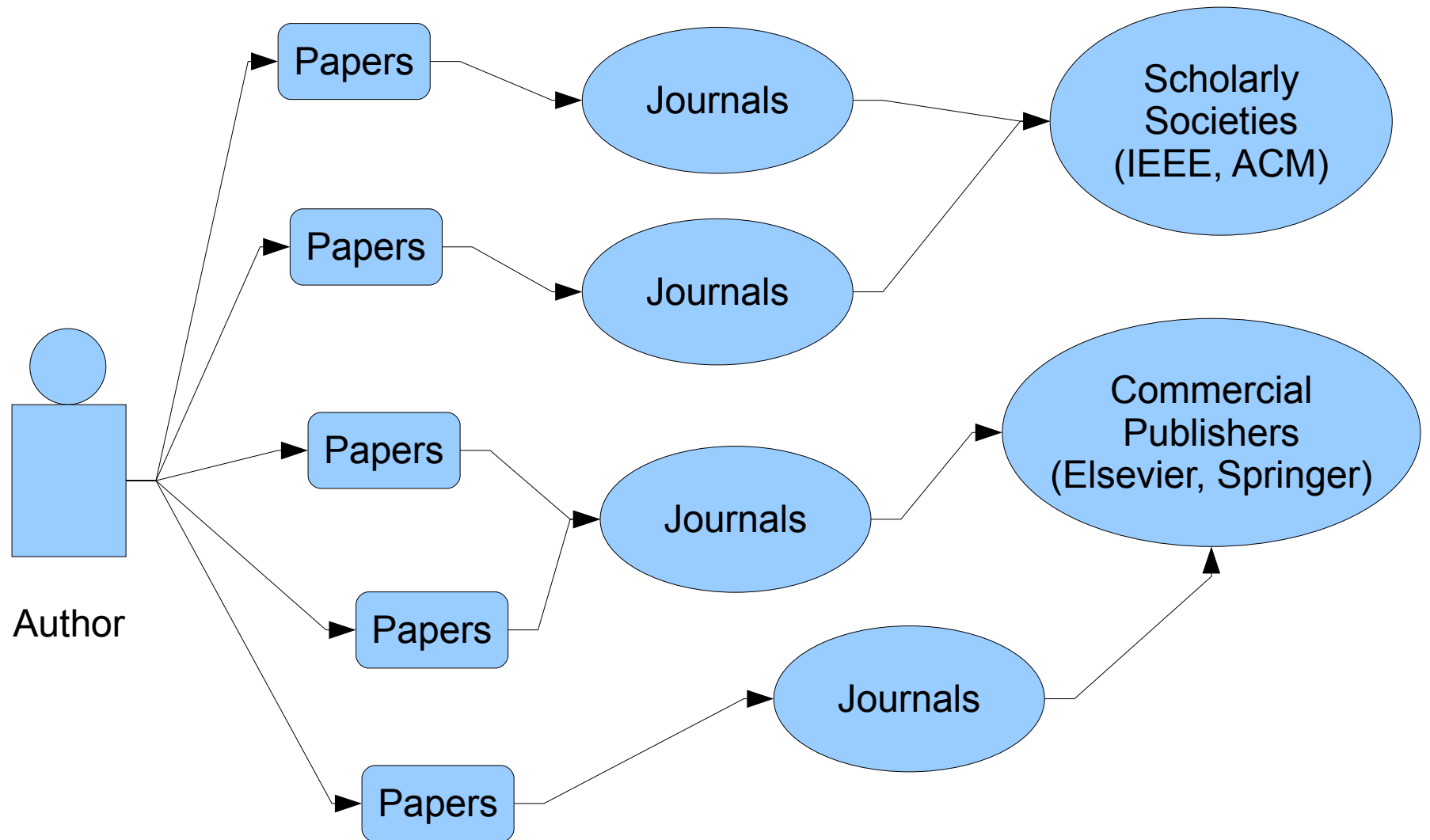
Copyright laws apply
to more
than the Evil Mouse...

They also apply to
scientific publications

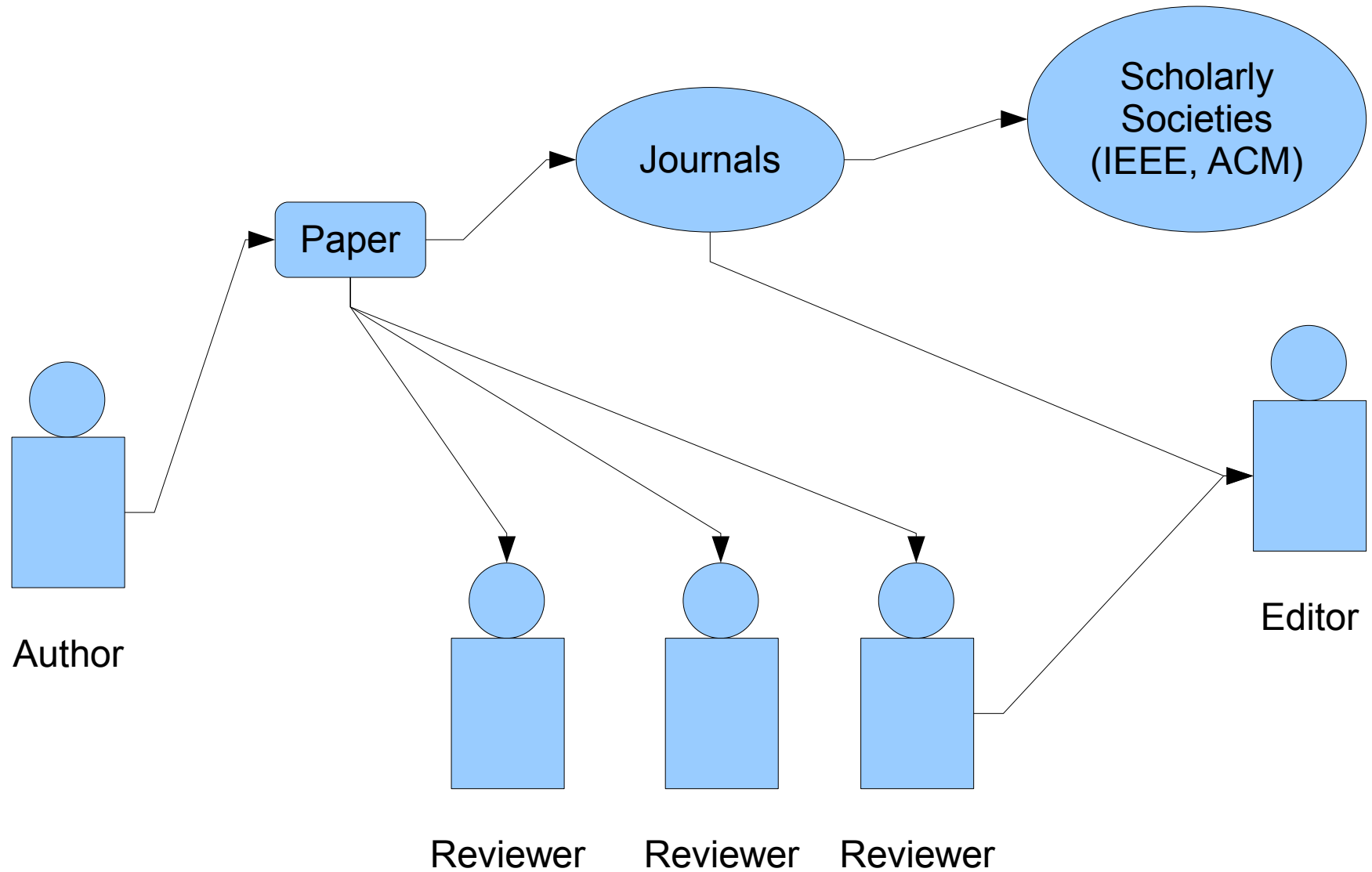
NIH Research

- **NIH Budget** \$ 29 Billion
- **Outcome** \$ 65,000~60,000 papers
- **Cost of 1 paper** \$ 550,000
- **Cost of publishing 1 paper** \$ 2,500
0.5 ~ 1%

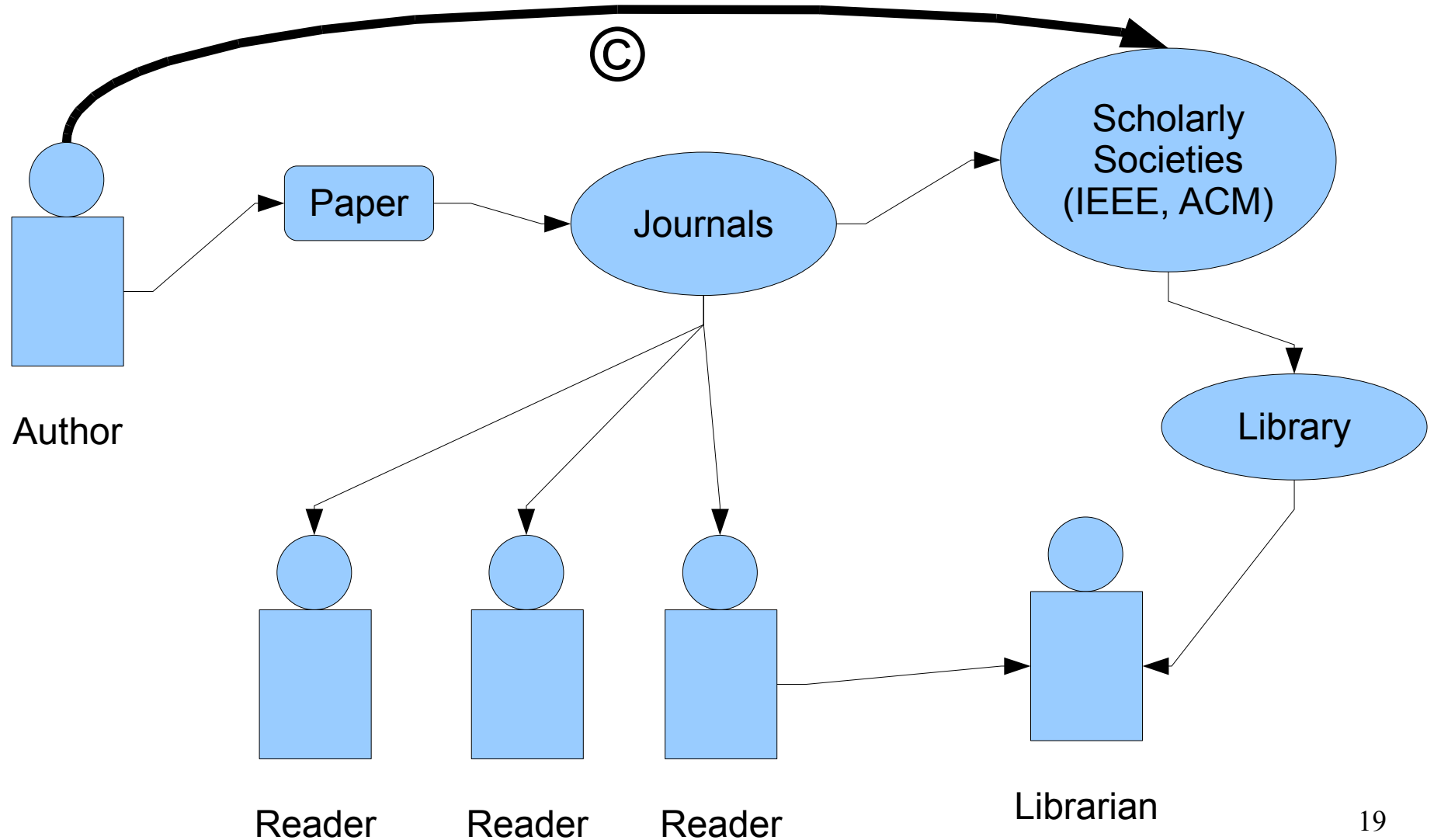
Publish or Perish



Peer Review



Copyright Transfer



Scholarly Publishing Economics

- Do Authors get paid ?
- Do Reviewers get paid ?
- Do Associate Editors get paid ?
- Do Editors get paid ?
- Who's rights do Copyright cover in a scholarly publication ?
- Do Authors pay for publishing ?
- Do Readers pay for reading ?

Intellectual Production

“No Researcher
Left behind”

RPI - open source Course

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Title	Current rating (combined revisions)	Authors	Keywords/Toolkits	Current Revision	Reviews	Current Status	My Review
Reproducible Ventricle Segmentation Using Insight Toolkit	★★★★☆	Marion P	segmentation, ventricle	2	[see reviews] (2)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Confidence Connected Segmentation of the Lateral Ventricles	★★★★☆	Radin P	 CMake	8	[see reviews] (2)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Image Segmentation	★★☆☆☆	OConnor K	Threshold, Connected, ...	1	[see reviews] (1)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Connected Threshold Segmentation of Ventricles in the Brain	No Opinion	Dugas S	connected, threshold, ...	1	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Image Segmentation: Ventricle Isolation Using Region Growing	No Opinion	Lajara J	region growing, ventricle, ...	2	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Ventricle Segmentation with Itk's Watershed filter	No Opinion	Stickney M	Ventricles, Watershed	1	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Segmentation of Ventricles in the Brain using Connected Threshold	No Opinion	Berck S	Connected Threshold, Ventricles CMake	1	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Connected Threshold Segmentation of Ventricles in the Brain	No Opinion	Dugas S	connected, threshold, ... CMake	1	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Experimenting with Segmentation in ITK	No Opinion	Bilgin C	ventricle segmentation, connected threshold,	2	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Image Segmentation Project - Open source software practices class	No Opinion	Mukherjee A	Level set segmentation, Image segmentation 3D	2	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Kenneth Johnson - Confidence Connected HW	No Opinion	Johnson K		1	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Segmentation Assignment	No Opinion	Arnone K		1	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
RPI OSSP Ventricle ConnectedThreshold Segmentation	No Opinion	Brandvein J	RPI, Ventricle, ...	1	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Confidence connected segmentation	No Opinion	Narayanaswamy A	Confidence Connected, Segmentation	3	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Segmentation Using a Region Growing Algorithm	No Opinion	Edman M	confidence connected, region growing	1	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]
Confidence Connected Segmentation using ITK	No Opinion	Piekos T	 CMake	1	(0)	Open for public review [add me as an associate editor]	[review] [add me as a reviewer]

Exercise

End