

SIMPOZIJ DOKTORSKOG STUDIJA GRAĐEVINARSTVA 2016

**Računalni programi za prikupljanje, arhiviranje i
referenciranje literature za znanstvena istraživanja**

Dr.sc. Ivo Haladin

Sveučilište u Zagrebu Građevinski fakultet



**SIMPOZIJ DOKTORSKOG STUDIJA
GRAĐEVINARSTVA**
12.-13. rujna 2016., Zagreb

Sadržaj

- **Uvod**
- **Usporedba računalnih programa**
- **Prikaz sustava Mendeley**
 - Online sučelje/desktop sučelje
 - Prikupljanje literature
 - Citiranje literature
 - Uređivanje stilova citiranja
 - Dijeljenje i suradnja
 - Nedostaci
- **Zaključak**



Uvod

- Na kojoj stranici se nalazi članak koji sam pronašao prije mjesec dana?
- Imam 50 radova u PDF-u koje ne mogu jednostavno pretražiti i citirati...
- Trebam ubaciti citat na početku članka i promijeniti ostalih 55 navoda literature!?
- Kako da sve navode literature uredim prema određenom stilu citiranja?
- Kako sa suradnicima podijeliti literaturu?



Uvod

I choose a lazy person to do a hard job. Because a lazy person will find an easy way to do it.



Bill Gates
www.geckoandfly.com



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Uvod

Potrebe suvremenog umreženog istraživača:

- dostupnost, društvene mreže, komunikacija, rad na više OS platformi, ažuriranje podataka, pretraživost, jednostavnost korištenja, ...



Uvod

- Odgovor na ova i mnoga druga pitanja daju računalni programi za organizaciju i pohranjivanje podatka o radovima poznati pod engleskim nazivima: **reference management software, citation management software ili personal bibliographic management software.**



Uvod

- **Neke od osnovnih funkcija omogućavaju:**
 - organizaciju i pohranjivanje podatka o radovima,
 - pohranu cijelih radova, knjiga, disertacija, mrežnih stranica,
 - označavanje interesantnih dijelova rada, pisanje zabilješke uz svaki rad,
 - dijeljenje svoje popise literature s kolegama, organiziranje literature za studente
 - pristupanje literaturi s bilo kojeg umreženog računala ili mobitela



Uvod

- raspoložu sa stotinama različitih standarda citiranja literature, pa odabrane radove možete izdvojiti u jednom od njih i jednostavnom naredbom copy/paste ugraditi ih u svoj članak, knjigu, disertaciju i dr.
- Definiranje vlastitih stilova citiranja literature
- Ažuriranje citata i popisa literature u vašem radu
- Pronalaženje duplikata među literaturom



Usporedba računalnih programa

- **zotero** - **besplatno dostupan** program otvorenog koda. Korisnicima omogućava korištenje prikupljenih referenci i cjelovitih tekstova s različitih lokacija. Zotero je napravljen kao **plugin za Firefox**, a razvoj je usmjeren i na ostale web preglednike kao i na desktop verziju
-  **MENDELEY** - **besplatni program** (Elsevier), nije vezan uz web preglednik. Velike mogućnosti za online suradnju – **akademska društvena mreža**; može se pridružiti interesnoj grupi koja prikuplja literaturu i diskutira ili stvoriti vlastita grupa (grupe se naplaćuju).

Usporedba računalnih programa

-  - Thomson Reuters proizvod, **basic verzija** dostupna besplatno (web sučelje s ograničenjima), **full verzija**, oko \$115 za akademsku licencu (desktop sučelje, bez ograničenja)
-  Ref**Works** - (ProQuest)najstariji i najpoznatiji komercijalni program za upravljanje referencama, a cijena mu je oko \$100 za osobnu upotrebu.

USPOREDBA:

<https://www.library.wisc.edu/services/citation-managers/comparison-chart/>

https://en.wikipedia.org/wiki/Comparison_of_reference_management_software

<http://guides.lib.berkeley.edu/publichealth/citations>

<http://umb.libguides.com/managecitations>



Usporedba računalnih programa

Značajke	RefWorks	EndNote	EndNote Basic	Mendeley	Zotero
Cijena	100 USD	250 USD 115 USD Studenti	Besplatno do 2GB	Besplatno do 2GB Naplata grupa	Besplatno 100MB
Dijeljenje dokumenata s drugima	DA	DA	DA	DA	DA
Društvena mreža	NE	NE	NE	DA	DA
Kompatibilnost s web preglednikom	DA	NE	DA	DA	Firefox – DA Internet explorer- NE
Direktni export baze podataka	DA	DA	NEKE	DA	DA
Formatiranje citata u tekstu i u popisu literature	DA	DA	DA	DA	DA
Pohranjivanje PDFova	DA	DA	NE	DA	DA
Bilješke unutar PDFova	NE	DA	NE	DA	NE
Dohvaćanje podataka iz PDFa	Only DOI	SOME	NE	DA	DA
Stilovi citiranja	3000+ Prilagodive	5000+ Prilagodivi	21	6000+	16 instalirano 6000+ može se dodati
Pristup	Web	Desktop	Web	Web & Desktop	Firefox extension
Mobilne tehnologije	DA - RefMobile	iPad	NE	DA (iOS, Android)	DA



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Osobni odabir



MENDELEY



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Online sučelje

The screenshot displays the Mendeley web interface, specifically the 'Suggested Publications' section. The browser address bar shows the URL <https://www.mendeley.com/suggest/>. The interface includes a navigation bar with tabs for 'Feed', 'Library', 'Suggest' (which is active), 'Stats', 'Groups', and 'Data'. A search bar and a user profile icon labeled 'Ivo' are also present. The main content area is divided into three sections:

- Based on all the articles in your library:** This section features three article cards. Each card includes the article title, authors, publication details, and options to 'Save' or 'Share'.
 - Study on annoyance, disturbance and disease due to the combined noises from road traffic and viaduct rail transit** by Di G.-Q., Fang D.-Q., Xu Y.-Q. (Internoise 2015 (2015)).
 - Measuring owl flight noise** by Geyer T., Sarraj E., Fritzsche C. (43rd International Congress on N... (2014)).
 - Thin overlay mixes for highway noise mitigation** by Trevino M. (INTER-NOISE 2015 - 44th Interna... (2015)).
- Most recently added to your library:** This section also displays three article cards with similar layout and options.
 - Measuring and simulation of road traffic noise on Rijeka - Zagreb highway** by Lakusic S., Dragcevic V., Haladin I. (Proceedings - EMS 2008, Europea... (2008)).
 - The effect of rail fastening system modifications on tram traffic noise and vibration** by Lakušić S., Haladin I., Ahac M. (Shock and Vibration (2016)).
 - Analysis of tram induced vibration influence on underground garage structure through exploitation** by Lakušić S., Haladin I., Bogut M. (21st International Congress on So... (2014)).
- Popular in your discipline: Engineering:** This section shows three more article cards.
 - The origins and the future of microfluidics.** by Whitesides G. M.
 - A review of solar photovoltaic technologies** by Parida R., Mishra S., Goia R.
 - Coupled electromechanical model of the heart: Parallel finite element formulation** by T. H. S. O. (2015).

At the bottom of the interface, there is a status bar with the text 'We've personalized article' and a dropdown arrow. The bottom right corner of the browser window shows 'Mendeley Web Library 3'.

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Desktop sučelje

STRUKTURA BAZE PODATAKA

File Edit View Tools Help

Add Remove Import Export Share Sync

My Library

- All Documents
- Recently Added
- Recently Read
- Favorites
- Needs Review
- My Publications
- Unsorted
- Doktorski**
 - CETRA2016
 - damperi
 - nedostaje
 - Norme
 - Shock and vibration
 - test-track
 - u radu

Filter by Author Keywords

All

1

[Electronic Manuscript]

abstract

accelerometer

according to tayabji and

Acoustic generators

Acoustic noise

alternatives

anisotropy

are based on

AS - Acoustics & Sonar

asphalt with rubber

attenuation properties

behavior of a slab

blow

building structural response

concrete slab track

concrete track

contact force

Continuous measurement

Mendeley Desktop

Doktorski Edit Settings

Authors	Title	Year	Published In	Added
Ag, D B	Standardisation of damping technologies for the reduction of railway noise	2010	Context	23.8.15.
Ahac, Maja	Mehaničko-empirijski model promjene širine tramvajskog kolosijeka tijekom eksploatacije	2013		31.1.15.
Auersch, L	and the corresponding ground vibration	2011		10.7.14.
Betgen, Benjamin; ...	The STARDAMP Software : An Assessment Tool for Wheel and Rail Damper Efficiency ...	2013	AIA-DAGA 2013 Confe...	21.8.15.
Block, James; Jone...	IMAGINE - Progress Towards a Comprehensive Description of Railway Noi...	2006	European Conference ...	7.1.15.
Bogut, Marijan	Izvjestaj o tipskom ispitivanju buke niskopodnog elektromotornog vlaka EMV Ž...	2010		5.11.15.
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Carels, Patrick	VIBRATION & GROUND BORNE NOISE MONITORING AND EVALUATION OF THE P...			10.7.14.
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D'Andrea, Antonio; ...	Vibration Induced by Rail Traffic: Evaluation of Attenuation Properties in a Bituminous S...	2012	Procedia - Social and B...	14.8.15.

1 of 160 documents selected

Search

Search

Details Notes Contents

Type: Journal Article

OPTIMIZATION OF RESILIENT WHEELS FOR ROLLING NOISE CONTROL

Authors: P. BOUVET, N. VINCENT, A. COBLENTZ et al.

View research catalog entry for this paper

Journal: *Journal of Sound and Vibration*

Year: 2000

Volume: 231

Issue: 3

Pages: 765-777

Abstract:

Resilient wheels are currently used on light rail systems such as tramways to prevent squealing noise and to reduce impact noise. On the other hand, they are rarely found on main lines (passenger rolling stock and freight rolling stock). Although manufacturers often claim that resilient wheels are favourable for rolling noise control, no extensive theoretical investigation confirming this statement has been published to date. In this paper, it is shown how resilient wheels can be effectively optimised in order to reduce rolling noise emission, compared to a conventional monobloc wheel. A preliminary analysis of the physical phenomena accounting for rolling noise generation emphasizes the key design parameters affecting both wheel and radiation. These parameters are the radial dynamic stiffness and damping loss factor of the rubber layer. The tread mass is also relevant. The influence of these design parameters is then qualified by a parametric study performed with the TWINS software. An optimum radial dynamic stiffness of the resilient layer is found which depends on operating conditions. Reductions in overall rolling noise up to 3 dB(A) are calculated for the configurations investigated. However, poor selection of the design parameters can lead to a noise increase compared to a standard monobloc wheel. It is also shown that a proper design for rolling noise control will not affect wheel ...

Tags:

Author Keywords:

Date Accessed:



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Desktop sučelje

Prikupljeni članci u odabranoj mapi

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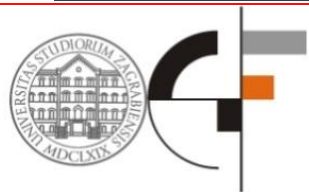
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Desktop sučelje

The screenshot displays the Mendeley Desktop application. The left sidebar shows the 'My Library' section with a list of folders and documents. The main window shows a list of documents with columns for Authors, Title, Year, Published In, and Added. The right pane shows the details of the selected document, 'OPTIMIZATION OF RESILIENT WHEELS FOR ROLLING NOISE CONTROL' by P. BOUVET, N. VINCENT, A. COBLENTZ et al.

My Library

- All Documents
- Recently Added
- Recently Read
- Favorites
- Needs Review
- My Publications
- Unsorted
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- u radu

Filter by Author Keywords

- All
- 1
- [Electronic Manuscript]
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- accelerometer
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Mendeley Desktop

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Detalji odabranog članka

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Desktop sučelje - pretraživanje

The screenshot displays the Mendeley Desktop application window. The title bar reads "Mendeley Desktop". The menu bar includes "File", "Edit", "View", "Tools", and "Help". Below the menu bar is a toolbar with icons for "Add Files", "Folders", "Related", "Share", and "Sync". The main window is divided into several panes. On the left, the "My Library" pane shows a tree view of folders: "All Documents", "Recently Added", "Recently Read", "Favorites", "Needs Review", "My Publications", "Unsorted", and "Doktorski". The "Doktorski" folder is selected. Below this is a "Filter by Author Keywords" pane with a list of keywords including "abstract", "accelerometer", "according to tayabji", "Acoustic generators", "Acoustic noise", "alternatives", "anisotropy", "are based on", "AS - Acoustics & Sonar", "asphalt with rubber", "attenuation properties", "behavior of a slab", "blow", "building structural response", "concrete slab track", "concrete track", "contact force", and "Continuous measurement". The main pane shows search results for "rail roughness" in the "Doktorski" folder. The results list includes titles like "Quiet Tracks for Sustainable Railway Infrastructures - D1 - Monitoring of rail roughness, track dynamic properties and average wheel roughness: Investigat...", "Measuring device for acoustic roughness of running surfaces of the rail mbbmRM1200 - Measuring device", "Background for an New Standard on Pass-By Measurement of Combined Roughness, Track Decay Rate and Vibroacoustic Transfer Functions", "Wheel-rail noise generation, Part I: Introduction and interaction model", "Roughness measurements—Have the necessities changed?", "Estimation of Wheel/Rail Interaction Forces in the Contact Area Due To Roughness", "Influence of train type and rail surface roughness on railway traffic noise", "Experimental Characterization of Wheel and Rail Surface Roughness", "Procedure and applications of combined wheel / rail roughness measurement", "Testing a new rail roughness measurement standard", and "Experimental Validation of the Twins Prediction Program for Rolling Noise, Part 1: Description Of The Model And Method". The right pane shows details for the selected document, including the title "Quiet Tracks for Sustainable Railway Infrastructures - D1 - Monitoring of rail roughness, track dynamic properties and average wheel roughness: In...", authors "H. Venghaus, M. Petz", year "2014", pages "42", and a list of tags.

Desktop sučelje - pretraživanje

Mendeley Desktop

File Edit View Tools Help

Add Files Folders Related Share Sync

My Library

Acoustic Noise Source ...

Development of a Trac...

My Library

All Documents

Recently Added

Recently Read

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Doktorski

Edit Settings

Results for "rail roughness" in "Doktorski". Search in All Documents

Search Results

Quiet Tracks for Sustainable Railway Infrastructures - D1 - Monitoring of rail roughness, track dynamic properties and average wheel roughness: Investigat

Helmut Venghaus; M Petz - 2014

...Sustainable Railway Infrastructures Monitoring of rail roughness, track dynamic properties and ...

Measuring device for acoustic roughness of running surfaces of the rail mbbmRM1200 - Measuring device

mbbmRM1200 Measuring device for acoustic roughness of running surfaces of the rail

Background for an New Standard on Pass-By Measurement of Combined Roughness, Track Decay Rate and Vibroacoustic Transfer Functions

M G Dittrich; F Létourneau; H Dupuis - 2013 - Noise and Vibration Mitigation for Rail Transportation Sy...

Proc. Title: Noise and Vibration Mitigation for Rail Transportation Systems

...Pass-By Measurement of Combined Roughness, Track Decay Rate and Vibroacoustic Transfer ...

Wheel-rail noise generation, Part I: Introduction and interaction model

D. J. Thompson - 1993 - Journal of Sound and Vibration

Abstract: ...the wheel and rail surface roughnesses. A detailed model of the noise generation ...

Roughness measurements—Have the necessities changed?

R.J. Diehl; P Holm - 2006 - Journal of Sound and Vibration

Abstract: ...by Deutsche Bahn, the RM1200E rail roughness measurement device became available ...

...by Deutsche Bahn, the RM1200E rail roughness measurement device became available ...

Estimation of Wheel/Rail Interaction Forces in the Contact Area Due To Roughness

Paul J. Remington - 1996 - Journal of Sound and Vibration

Abstract: ...wheel and rail due to roughness is an inherently non-linear process. In order to ...

...THE CONTACT AREA DUE TO ROUGHNESS P. R. □□□□□□□□ □□□ J. W □□□ BBN Acoustics Technologies ...

Influence of train type and rail surface roughness on railway traffic noise

Stjepan Lakušić; M Bogut; I Haladin - 2011 - Mechanics, Transport, Communications

Experimental Characterization of Wheel and Rail Surface Roughness

J.-F. Cordier; P Fodman - 2000 - Journal of Sound and Vibration

Abstract: ...railway rolling noise. Measuring the rail roughness may be critical in the assessment ...

...the direct scanning of surface roughnesses. Roughness data processing is often performed ...

Procedure and applications of combined wheel / rail roughness measurement

M G Dittrich - 2009 - NAG-DAGA 2009

...and applications of combined wheel/rail roughness measurement M.G. Dittrich TNO Science ...

Testing a new rail roughness measurement standard

Chris J. Jones; F Létourneau; P Fod... - 2008 - The Journal of the Acoustical Society of America

...08 Paris Testing a new rail roughness measurement standard C. J.C Jones a , F. L ...

Experimental Validation of the Twins Prediction Program for Rolling Noise, Part 1: Description Of The Model And Method

D.J. Thompson; B Hemsworth; N Vincent - 1996 - Journal of Sound and Vibration

Abstract: ...the input parameters (the surface roughnesses of wheel and rail) were measured as ...

...the input parameters (the surface roughnesses of wheel and rail) were measured as ...

Details

Notes

Contents

Type: Report

Quiet Tracks for Sustainable Railway Infrastructures - D1 - Monitoring of rail roughness, track dynamic properties and average wheel roughness: In...

Authors: H. Venghaus, M. Petz

View research catalog entry for this paper

Year: 2014

Pages: 42

Abstract:

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Author Keywords:

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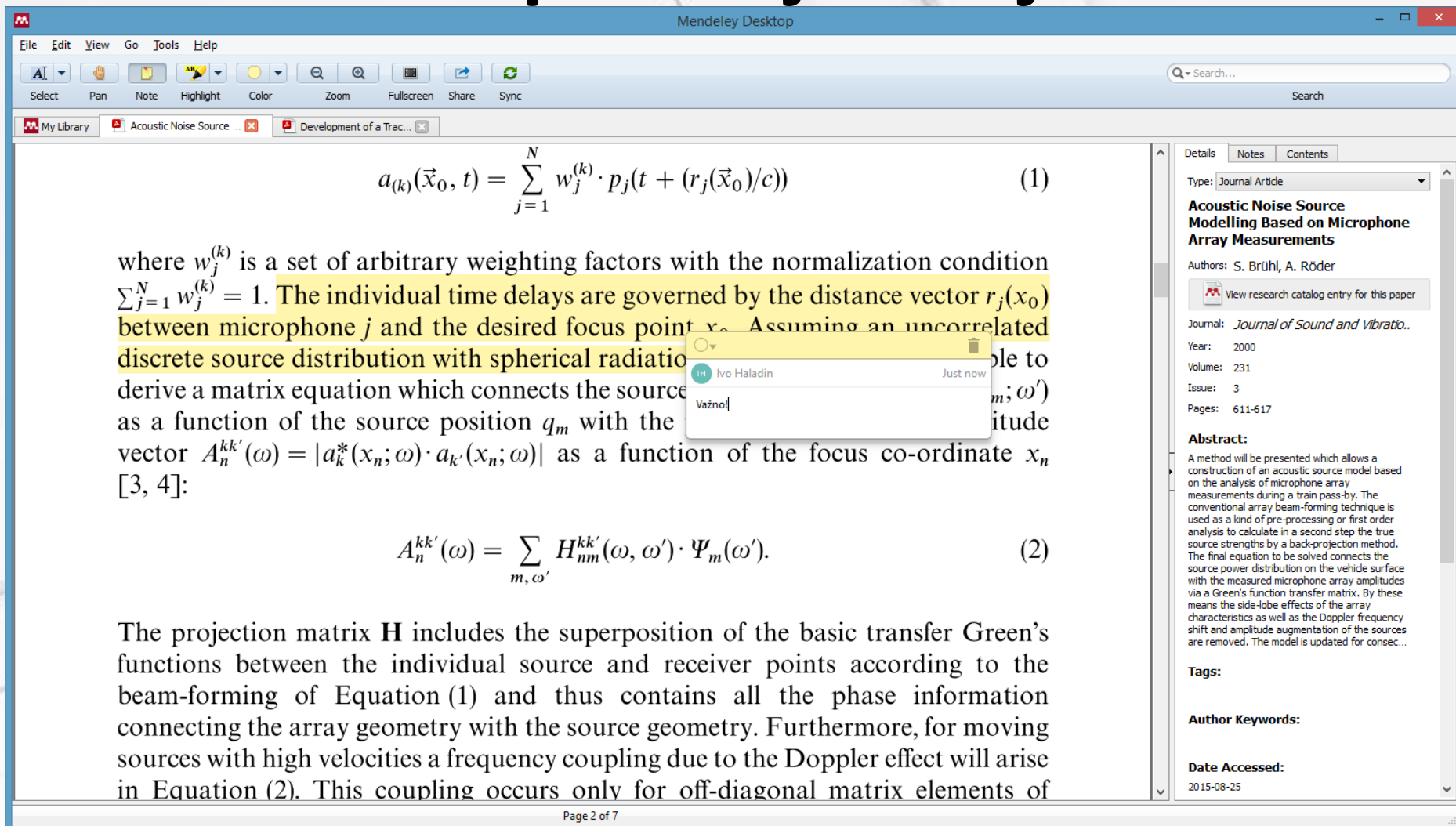
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Desktop sučelje - bilješke



The screenshot shows the Mendeley Desktop application window. The main document area displays a mathematical equation (1) and a paragraph of text. A sidebar on the right shows a list of research articles, with the selected article titled "Acoustic Noise Source Modelling Based on Microphone Array Measurements" by S. Brühl and A. Röder. The article details include the journal "Journal of Sound and Vibration", year 2000, volume 231, issue 3, and pages 611-617. The abstract describes a method for constructing an acoustic source model based on microphone array measurements.

Equation (1):

$$a_{(k)}(\vec{x}_0, t) = \sum_{j=1}^N w_j^{(k)} \cdot p_j(t + (r_j(\vec{x}_0)/c)) \quad (1)$$

where $w_j^{(k)}$ is a set of arbitrary weighting factors with the normalization condition $\sum_{j=1}^N w_j^{(k)} = 1$. The individual time delays are governed by the distance vector $r_j(x_0)$ between microphone j and the desired focus point x_0 . Assuming an uncorrelated discrete source distribution with spherical radiation, it is possible to derive a matrix equation which connects the source $a_m(\omega)$ as a function of the source position q_m with the magnitude vector $A_n^{kk'}(\omega) = |a_k^*(x_n; \omega) \cdot a_k(x_n; \omega)|$ as a function of the focus co-ordinate x_n [3, 4]:

$$A_n^{kk'}(\omega) = \sum_{m, \omega'} H_{nm}^{kk'}(\omega, \omega') \cdot \Psi_m(\omega'). \quad (2)$$

The projection matrix $\mathbf{H}$ includes the superposition of the basic transfer Green's functions between the individual source and receiver points according to the beam-forming of Equation (1) and thus contains all the phase information connecting the array geometry with the source geometry. Furthermore, for moving sources with high velocities a frequency coupling due to the Doppler effect will arise in Equation (2). This coupling occurs only for off-diagonal matrix elements of

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Published: Građevinar 68 (2016) 7

Paper type: Preliminary report

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Elastic modulus of asphalt with chemically stabilized rubber bitumen

Lajos Kisgyörgy, Csaba Tóth, András Geiger

Abstract

The chemically stabilized rubber bitumen (CSRB) has been developed by researchers from the company MOL and the Pannonian University (Hungary). The CSRB is made of used automobile tyres, and it improves the quality of pavement, while also enabling an efficient use of used automobile tyres. Mechanical properties of the chemically stabilized crumb rubber bitumen are analysed in the paper.

Although test results have shown that CSRB properties are similar to those of the



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Elastic modulus of asphalt with chemically stabilized rubber bitumen

Kisgyörgy L, Tóth C, Geiger A
2016 vol: 68 (7)

Date Accessed: 2016-09-12

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☐ Modul elastičnosti asfalta s bitumenom modificiranim gumenim granulatom kao vezivom
Journal of the Croatian Association of Civil Engineers, 2016[Details >](#)

javascript:document.getElementsByTagName('body')[0].appendChild(document.createElement('script')).setAttribute('src','https://www.mendeley.com/minified/bookmarklet.js');

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Citiranje literature

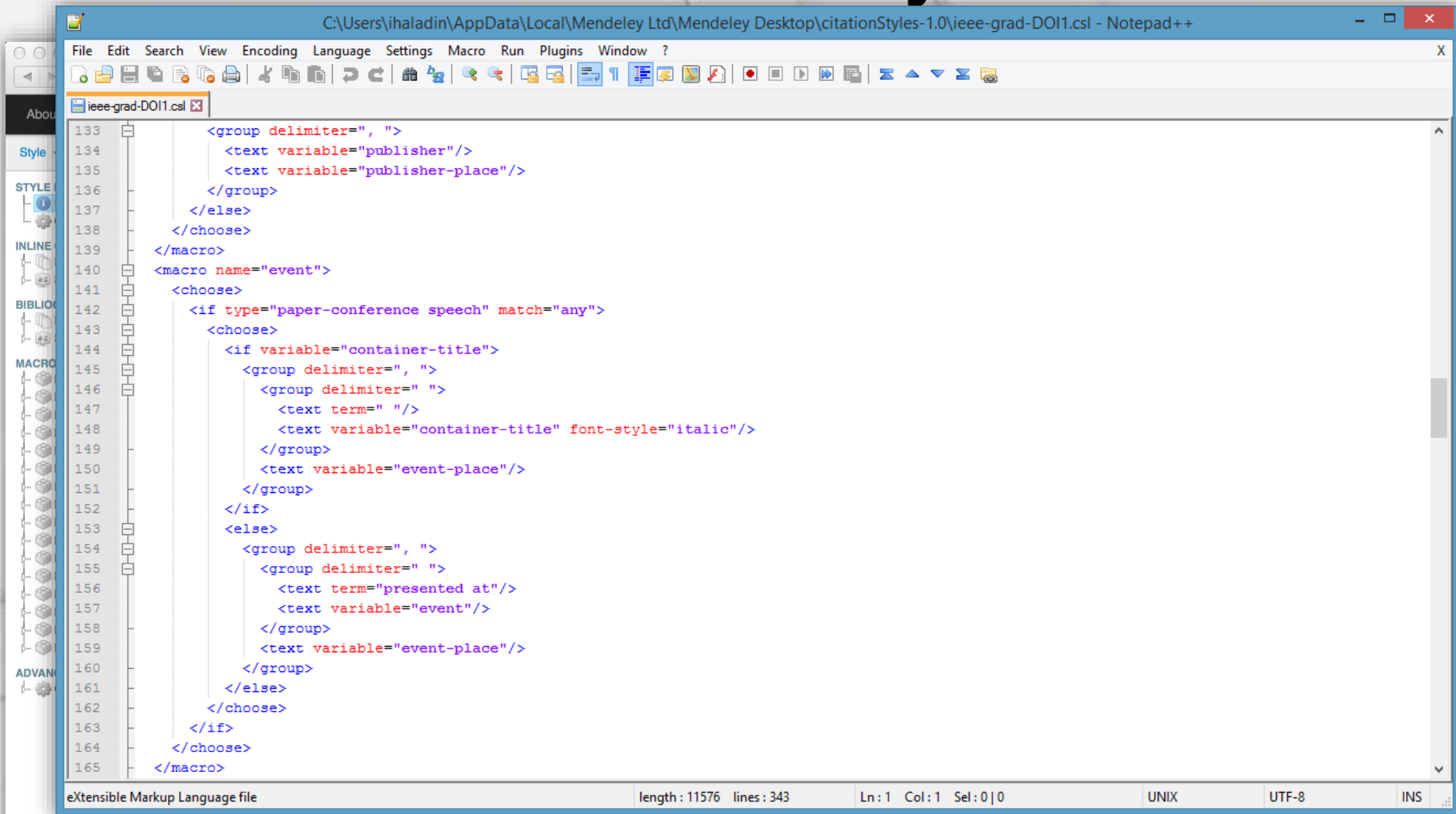
Kao glavni izvori buke i vibracija mogu se identificirati motori vozila, aerodinamični kontakt kotača vozila i tračnice. Brzina prometovanja je glavni izvor buke, pa je tako buka od motora vozila dominantna pri niskim brzinama, dok pri visokim brzinama dominantan izvor postaje aerodinamična buka. Ove vrijednosti nisu jedina uvjeta, pa tako u literaturi nailazimo na različite raspone brzina za dominantne izvore buke: 50 – 270 km/h [1], 40 – 250 km/h [2], 50 – 200 km/h [3], 50 – 250 km/h [4]. Udio buke od kotrljanja, javlja se pri manjoj brzini ukoliko vozila imaju veliku površinu kotača i tračnica na kojima se kreću.

Literatura

- [1] Block, J., Jones, R.: IMAGINE - Progress Towards a Comprehensive Description of Railway Noise Sources, *European Conference on Noise Control - Euronoise 2006*, p. 6, Tampere, Finland, 2006.
- [2] Diehl, R. J., Holm, P.: Roughness measurements—Have the necessities changed?, *Journal of Sound and Vibration*, vol. 293, no. 3–5, pp. 777–783, Jun. 2006, <http://dx.doi.org/10.1016/j.jsv.2005.08.046>.
- [3] Hemsworth, B.: STAIRRS - Strategies and Tools to Assess and Implement Noise Reducing Measures for Railway Systems - Final technical report, 2003.
- [4] Desanghere, G.: Quiet Tracks for Sustainable Railway Infrastructures (QUIET-TRACK), 2013, Available: <http://www.quiet-track.eu/>. [Accessed: 20-Aug-2015].



Odabir i uređivanje stilova



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135   <text variable="publisher-place"/>
136 </group>
137 </else>
138 </choose>
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Dijeljenje i suradnja

The image displays a screenshot of a research catalog interface, likely Mendeley, with three overlapping windows illustrating sharing and collaboration.

- Left Window (Groups):** Shows a catalog of 96,039 public groups. A specific group, "Future of Science", is highlighted, with a description: "An open group to co-review, open access". It lists keywords like "Open Access", "future", and "science".
- Middle Window (File Explorer):** Shows a file explorer view with a menu (File, Edit, View, Tools, Help) and a list of files/folders. The list includes items like "Norme", "Shock and vibration", "test-track", "u radu", "ECOTRACK - CETRA2012", "ECOTRACK - Tara 2011", "ICSV22", "Izvestaj-DMV-2015", "Propusna moc", and "RAIL ROUGHNESS - CETRA 2012".
- Right Window (User Profile/Feed):** Shows a user profile for "Ivo Haladin" (Research assistant at University of Zagreb Faculty of Civil Engineering) and a feed of suggested articles. The feed includes articles like "The synthetic biology future." and "Analysis and forecast of track composite irregularity".

Additional features visible include a "People suggested for you" section with profiles of Robert Arcos and Bozena Tyliczszak, a "Find your dream job!" button, and a "Web Importer" section.

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Nedostaci

- **Nemogućnost kreiranja vlastitih kategorija publikacija, već samo korištenje postojećih** (članci na konferenciji, članci u časopisima, knjige, izvještaji)
 - Ne postoji kategorija “norme” ili “direktive”
 - Endnote podržava tu funkciju
- **Relativno kompliciran process uređivanja stilova citiranja** (EndNote možda jednostavnije?)
- **Višejezičnost** – ne podržava iste reference na više jezika (Zotero podržava)
- **Ne postoji dodatak za PowerPoint, Wordpress, ...**



Zaključak

- Vrlo je važno što ranije u istraživanju početi sistematično prikupljati, kategorizirati i pohranjivati potrebnu literaturu
- Računalni alati poput sustava Mendeley uvelike olakšavaju pretraživanje, komentiranje, dijeljenje, pohranjivanje i citiranje različitih izvora
- Pravilnim navođenjem literature, skraćuje se vrijeme pisanja, uređivanja, objave znanstvenih članaka, te pridonosi njihovoj kvaliteti i citiranosti



Hvala na pažnji! ☺



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